LUNA 850 V / 550 V GOLD GAS
LUNA 850 DV / 550 DV GOLD GAS

INSTRUCTION FOR INSTALLATION AND USE

English 11-2012

Passion for fire

VERY IMPORTANT

INSTALLATION INSTRUCTIONS FOR THE M-DESIGN GAS FIREPLACES

THE SUPPLIER TAKES NO RESPONSBILITY FOR ANY POSSIBLE DAMAGE, POOR WORKING APPLIANCES AND ACCIDENT AS A RESULT OF INCORRECT INSTALLATION

MAINTENANCE GAS FIREPLACE M-DESIGN

THE M-DESIGN GAS FIREPLACES MUST BE CHECKED **every 2 years** and GET a MAINTENANCE. THIS IS ALSO TO MAINTAIN YOUR WARRANTY. IF THIS WILL BE NOT OBSERVED, THE WARRANTY FELL.
YOU CAN RELY ON M-DESIGN TO MAKE THIS CHECK FOR YOU, OR YOU CAN DO THIS BY YOURSELF AND FOLLOW THE METHOD BELOW.

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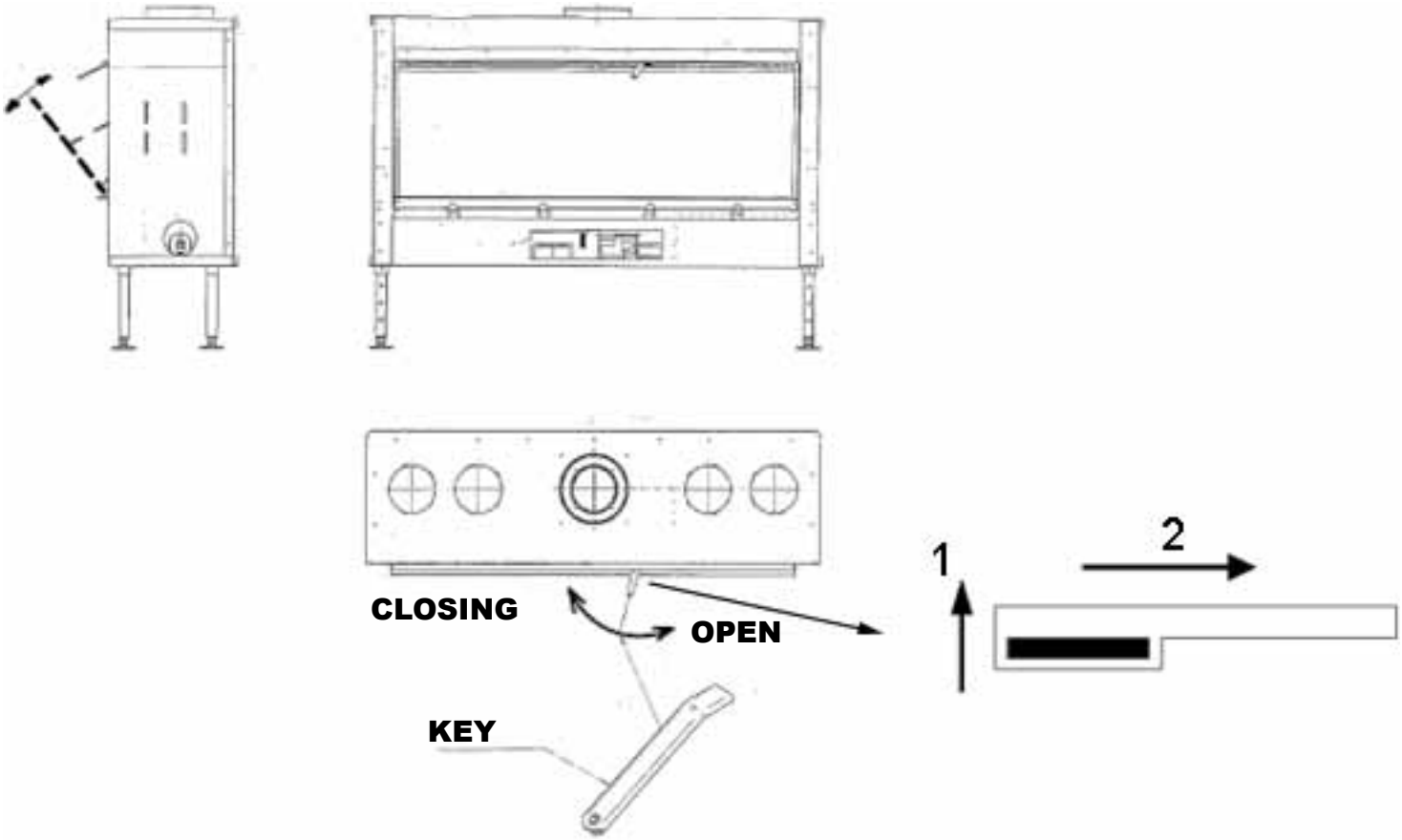
OPEN AND CLOSE THE DOOR



IF SOME DUST OR WASTE IS SEEN ON THE WINDOW (INSIDE AND OUTSIDE), CLEAN THIS BEFORE THE FIRST USE OF THE FIREPLACE.

1. GENERAL REMARKS

This is a moulding of the closed combustion system, designed for the atmosphere and comfort of your living-room. It constitutes an efficient source of heat and gives the impression of a real chimney fire.
The gas with air-vent furnaces are based on the principle of natural extraction from the furnace, which eliminates flue gas outside and brings in air (oxygen) from outside the house which is necessary for combustion of the gas. It uses to this effect two concentric pipes. The internal pipe ensures the elimination of burned gases and the external pipe brings in combustion air. The advantage of this principle is that the equipment works independently of the atmosphere which predominates in the house.

2. CONNECTION

This appliance must be connected by an approved installer in accordance with the most recent regulations in force. On the basis of your order specifications, this appliance is designed for natural or propane gas.
Read the instructions before installing and using this appliance. Before installing the furnace, please check the local regulations about this type of furnace (identification of the type of gas, etc.) and check that the furnace is adapted to your means of installation.

CAUTION: The furnace must be connected to the type of gas mentioned on the appliance. Never connect a propane burner to natural gas or vice versa!

It is imperative that the installer sees to the following:

- The appliance must be subject to a water tightness test of the gas and elimination of flue gases.
- The concentric pipe, if already available, must be working correctly.
- The running of the control valve, lighting of the pilot light, the main burner and the thermocouple must all be checked.

This appliance has been programmed and factory sealed. The sealed parts cannot be modified. The appliance may therefore also be installed in watertight accommodation and accommodation equipped with mechanical ventilation. It constitutes ambient heating even in accommodation equipped with a closed ventilation system.

3. INSTALLING THE FIREPLACE

After having checked the appliance, you ready to install your appliance.
This is done as follows

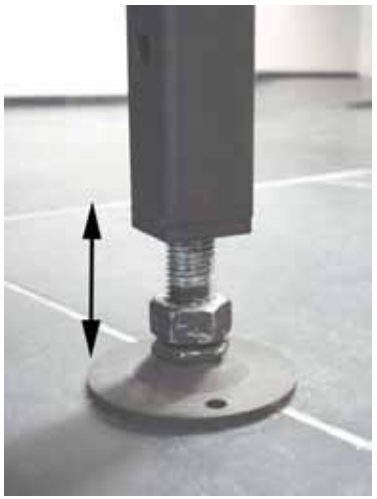
3.1.1 POSITIONING THE FIREPLACE

Place the fireplace on a stable surface using the adjustable feet. Adjust the height of the fireplace by turning the bolt (pic 1)

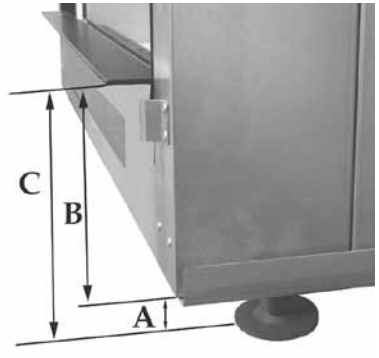
> ⚠ **The stove may not be placed direct ont the floor to allow natural convection.**
> **The appertures for the air supply (IN) is situated underneath the appliances.**

Regulating the height of the appliance :
This can be made in two ways.
A regulation by 8 times 5 cm (pic. 1) and a fine regulation by screw (pic.2).
The minimal height as from ground to the bottom of the appliance is 3,5 cm (A min).
The minimal height "C min" will be 22.5 cm, measured as from the ground to 4th side frame (pic.3).
The maximal height as from the ground to the bottom of the appliance is 45 cm.

pic. 1


pic. 2

A min = 3,5 cm
B = 19 cm
C min = 22.5 cm



pic. 3

3.1.2 GAS CONNECTION

The appliances are standard delivered with a 1/2” gas solded connection (fig. 1). It is always located at the left-hand side of the appliance. Make sure nothing remains in the gas lines, since this may easely lead to blockage. An approved gas valve should always be connected to the appliance, wich must be accesible at all time .
For this you can use a acces door (pic. 1 next page). This access door is also used to have access at the potentiometer (manual controller) and electrical supply.

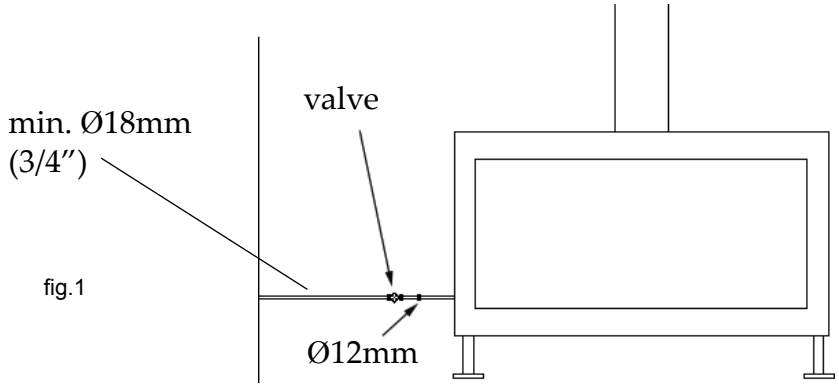


fig.1

pic.1

3.1.3 ELECTRICAL CONNECTION

These appliances are equiped with a radiographic remote control, making an earthened 220V socket necessary. You should bear in mind that the appliance must be connectes from all electrical supply for thurpose of service.
ITS OBLIGATORY TO CONNECT AN EARTH CURRENT.

4. INSTALLING THE CHIMNEY

Install the concentric flue duct as indicated by **ONTOP - METALOTERM**. The only authorised pipes are ONTOP Metaloterm™.
ONTOP-METALOTERM tested our fireplace with their conduct and we only garantee a good working of the fireplace with those.

Between the external wall of the pipe and the wall or the ceiling, you should anticipate for an interstice of at least 50mm and protection that is suitable against temperatures of around 130°C.
The passage of the front panel cowl in the external wall must be filled in using silicone mastic.

Fig. 1 ROOF EXIT (C31)

TAB. 1 This is recommanded with a roof exit ≥ 3m

Ø 150/100			
Appliance	C (min)	C (max)	Restrictiion HR+ (as from 4m)
LUNA 850 V / 550 V	3 m	18m	Ø 60
LUNA 850 DV / 550 DV	3 m	18m	Ø 60

TAB. 2 This is recommanded with a roof exit ≤ 3m

Ø 200/130			
Appliance	C (min)	C (max)	Restriction HR+ (as from 3m)
LUNA 850 V / 550 V	2 m	10m	Ø 60
LUNA 850 DV / 550 DV	2 m	9m	Ø 60

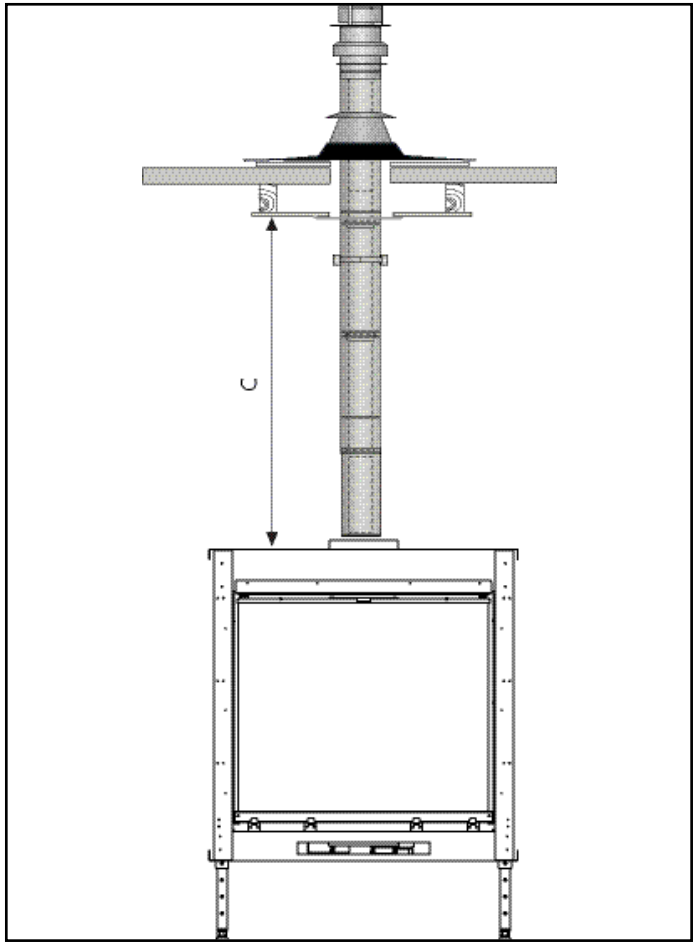
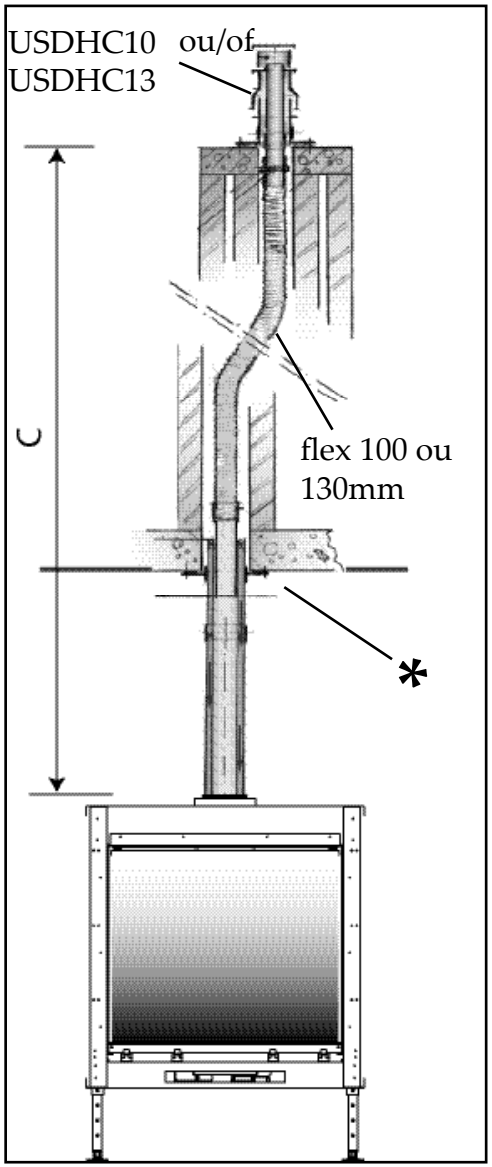


FIG. 1

Fig. 2 ROOF EXIT VIA EXISTING CHIMNEY (C_{31S})



TAB. 1

☐ 150(min) Ø 100			
Aplliance	C (min)	C (max)	Restriction HR+ (as from 4m)
LUNA 850 V / 550 V	3 m	18m	Ø 60
LUNA 850 DV / 550 DV	3 m	17m	Ø 60

TAB. 2

☐ 200(min) Ø 130			
Appliance	C (min)	C (max)	Restriction HR+ (as from 3m)
LUNA 850 V / 550 V	2 m	10m	Ø 60
LUNA 850 DV / 550 DV	2 m	9m	Ø 60

It is obligatory to use the sanitation set USSAN with placing.

* ⚠ ***This USSAN piece must be sealed at the roof.***

Fig. 3 WALL EXIT (C_{11})

Ø 150/100 with reduction USVK13 on the aplliance				
Appliance	A (min)	B (min)	B (max)	Restriction HR+
850 V / 550 V	1,25m	wall exit	A+0,5m	Ø 75
850 DV / 550 DV	1,25	wall exit	A	Ø 75

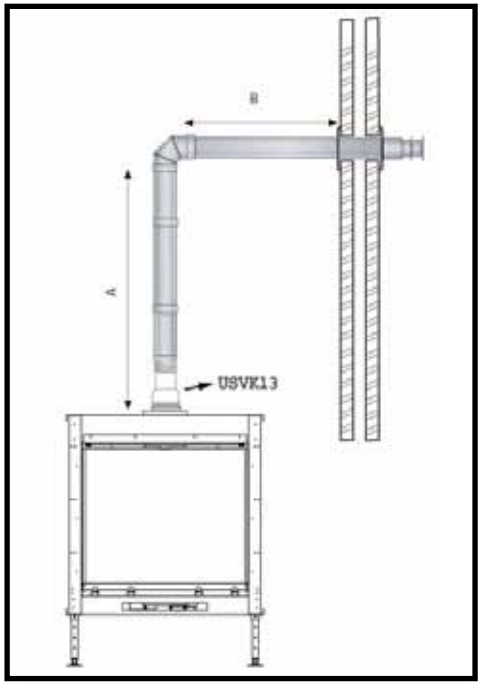


FIG. 3

Fig. 4 WALL EXIT (C_{11})

(A) Ø 200/130 in combination with (B) Ø 150/100 after first curve				
Appliance	A (min)	B (min)	B (max)	Restriction HR+
850 V / 550 V	1,25m	wall exit	A+ ”USVK13” +4m	----------
850 DV / 550 DV	1,25m	wall exit	A+ ”USVK13” +3m	----------

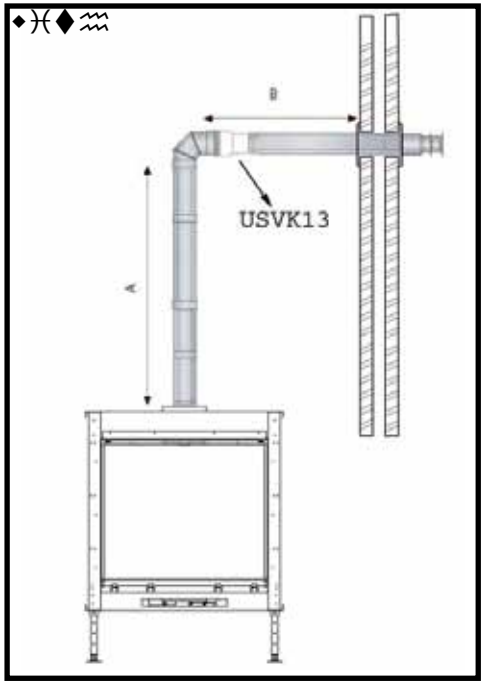
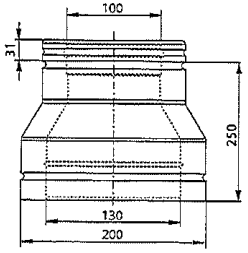
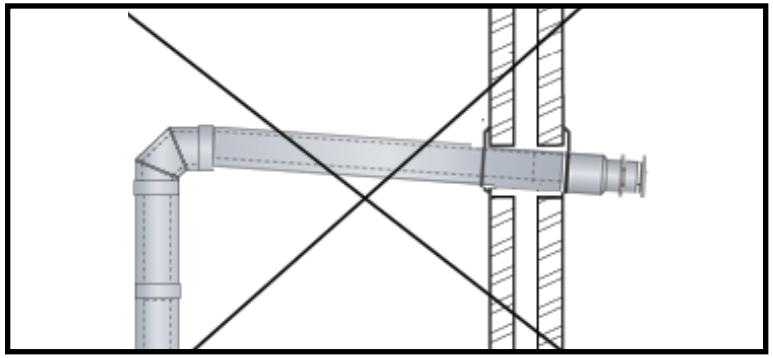


FIG. 4

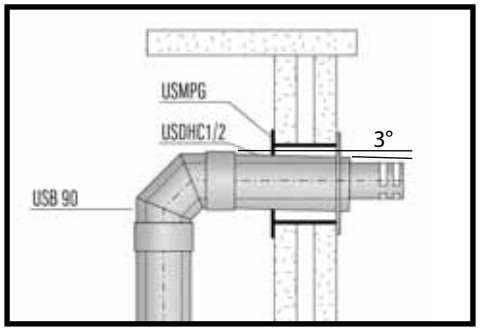


USVK13
REDUCTION 200/130 →150/100

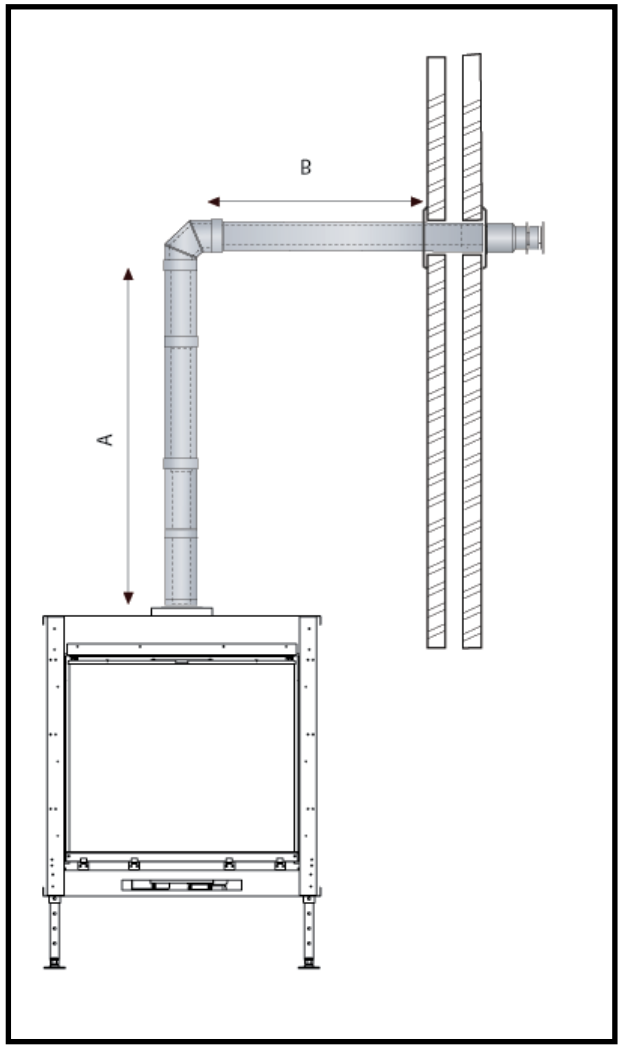
Ø 200/130				
Appliance	A (min)	B (min)	Restriction HR+	B (max)
850 V / 550 V	1	wall exit	Ø 75	A+8m
850 DV / 550 DV	11	wall exit	Ø 75	A+7m



Pic. 5



Pic.6



⚠ **IMPORTANT** : BE CAREFULL EVERY HORIZONTAL PART DOES NOT HAVE AN NEGATIVE INCLINATION (pic.5) IN DIRECTION OF OUTLET. IT IS EVEN BETTER, WHEN POSSIBLE, TO HAVE A LITTLE INCLINATION OF 2 OR 3 DEGREES ASCENDING.
ONLY THE OUTLET MUST BE INSTALLED LIKE PIC. 6 (TO AVOID RAIN DROPS IN TUBE)

Fig. 5 ROOF EXIT with 90° bends

Ø 150/100 with reduction USVK13 on the appliance				
Appliance	A (min)	B (max)	C (min)	(A+B+C) max
850 V / 550 V	1,25 m	A+C	B-A	16m
850 DV / 850 DV	1,25 m	A+C+0,5	B-A-0,5	15m

Fig. 5 ROOF EXIT with 90° bends

Ø 200 / 130				
Appliance	A (min)	B (max)	C (min)	(A+B+C) max
850 V / 550 V	1,25 m	(A+C) + 7m	B-A -9m	20m
850 DV / 550 DV	1,25 m	(A+C) + 6m	B-A-8m	19m

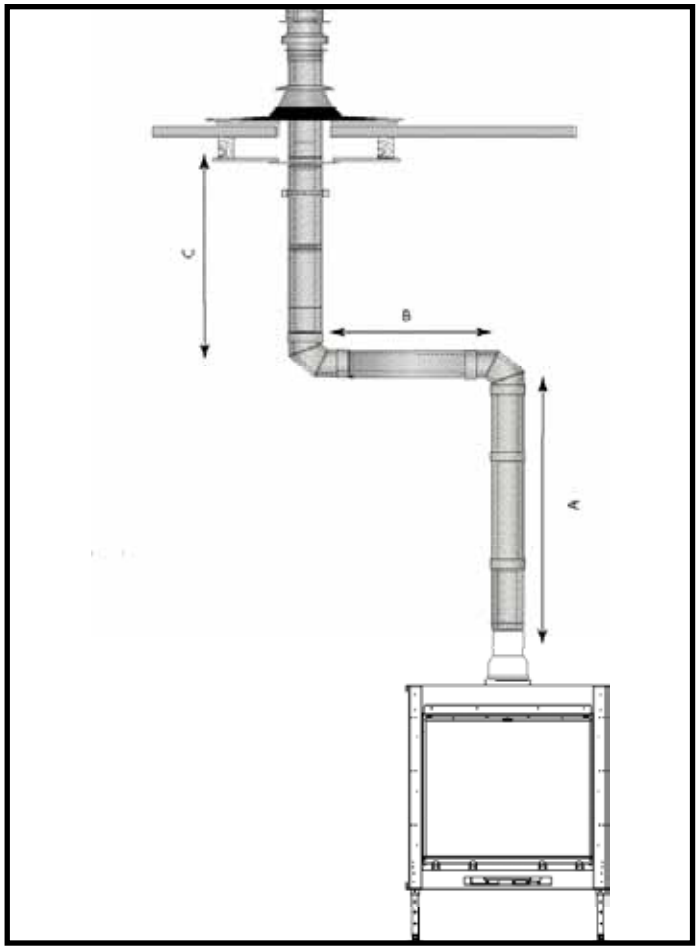
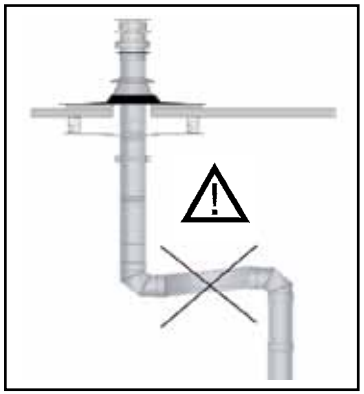


FIG. 5

Appliance	Ø 150/100 and Ø 200/130
850 V / 850 DV 550 V / 550 DV	for each 90° bend substract 1 m horizontaly or add 1 m verticaly.
850 V / 850 DV 550 V / 550 DV	for each 45° / 30° / 15° bend substract 0,5 m horizontaly or add 0,5 m verticaly.



CAUTION : if the vertical lenght is over 3 meter longer than the horizontal lenght, you will need to place a reduction ring of **Ø 60.**

5. INSULATION AND FINISHING

Please , follow this instruction. The appliance can overheat if you not apply those instructions. Errorcode F02 will appear !

Once installation is complete, the appliance can be fitted. Before doing so, check the tightness of the gas pipe one more time. Light the appliance and check that it is working: check the tightness of the gas pipe and the smoke pipe. Once you have checked everything, you can perform the final insulating and finishing operations.

The built-in part of the furnace tends to be very warm. Please check that the furnace is not too narrowly fitted and that there is adequate space for the elimination of hot air. For insulation of the furnace, we advise you to use M Design insulating plates. You are advised against using any other insulation product. Inflammable materials as well may not be used for the finishing.

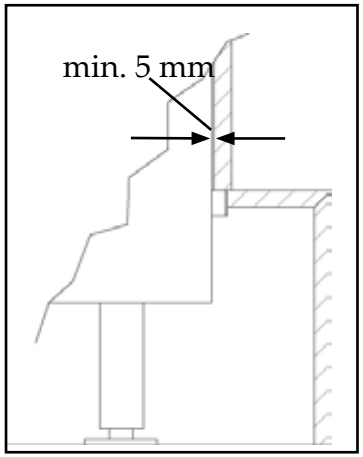
The masonry must be raised around the furnace. Because of the expansion of the furnace during combustion, an interstice of at least 5 mm must be provided on each side of the appliance. The masonry must not lean against the furnace.
THE APPLIANCE MUST BE SET FREE .
Please pay attention to leave approx. 2 mm inbetween the finishing frame and maconry (see p.17 , mounting a 3-sided frame)

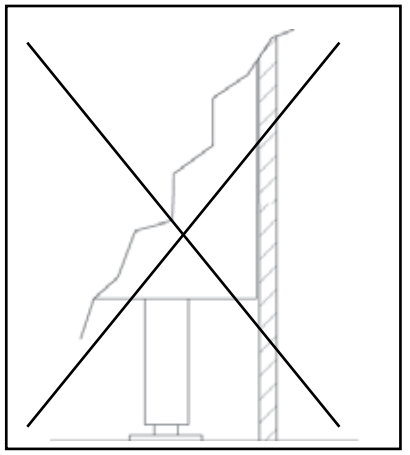
REFERENTIAL DISTANCES IN REGARDS TO FINISHING THE MANTLEPIECE

A very essential point when setting up the Luna Gold is that the distance has to be respected inbetween fireplace and the finishing material for the mantlepiece such as marble, gipsum,...
For this, a small bended metal sheet that is provided ont the fireplace (pic.1) , is to be used as the minimal reference for the distance. The finishing can only ga oas far as this meteal sheet (pic.2). Don't remove this (pic.3) ! This allows you to take out the 4th side frame and to let the airflow in the mantelpiece for natural convection.

pic. 1

pic. 2





pic. 3

6. CONVECTION CURRENT

Please , follow this instruction. The appliance can overheat if you not apply those instructions. Errorcode F02 will appear !

The enclosure of the furnace must be provided with ventilation grills or openings allowing for the elimination of heat by convection. It is possible to have a convection kit fitted with the furnace. This system directs the heat inside the room by means of flexible tubes (dia. 150 mm).
It is obligatory to open at least 2 hot air vents (**for the LUNA 1600 you must open 4**) at the top of the appliance.
For the purposes of the installation of these ducts it is best to go vertically upwards first for at least 1m and then to change direction, making a rather wide bend and avoid using a flue terminal grid with a small clearance because the speed loss that this causes reduces the efficiency of the hot air vents. Place all the fittings that you use at the same lengths and angles if possible, otherwise it is possible that some grids give off more heat than others and, seeing that a hot air pipe functions in a manner similar to a chimney, the one that is hot first has the most draught and therefore becomes hot even more quickly.
Note: a circulation of hot air requires that no under-pressure be created in the room. A grid that is near the floor (pic 2) sees to it that cold air can be drawn in.

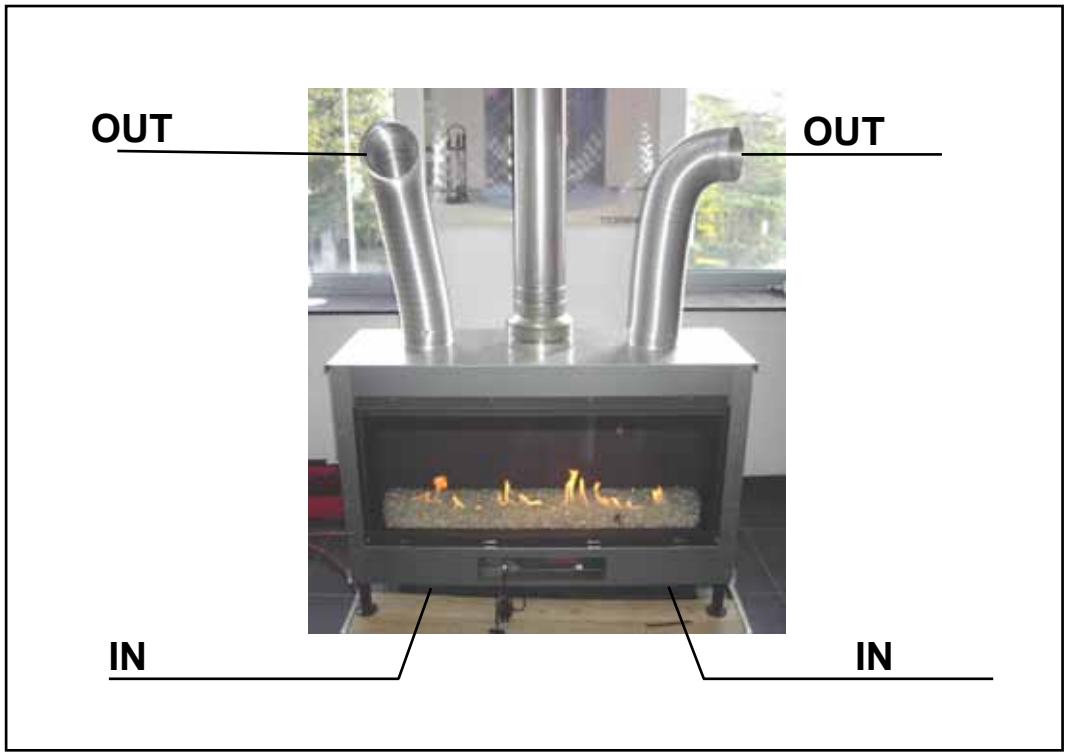
M-design has developed its ideal hot air grids which have many advantages (pic. 1 & 2) and for the elimination of hot air and the entry of warm air we advise you to use those Design grills made by M-Design.

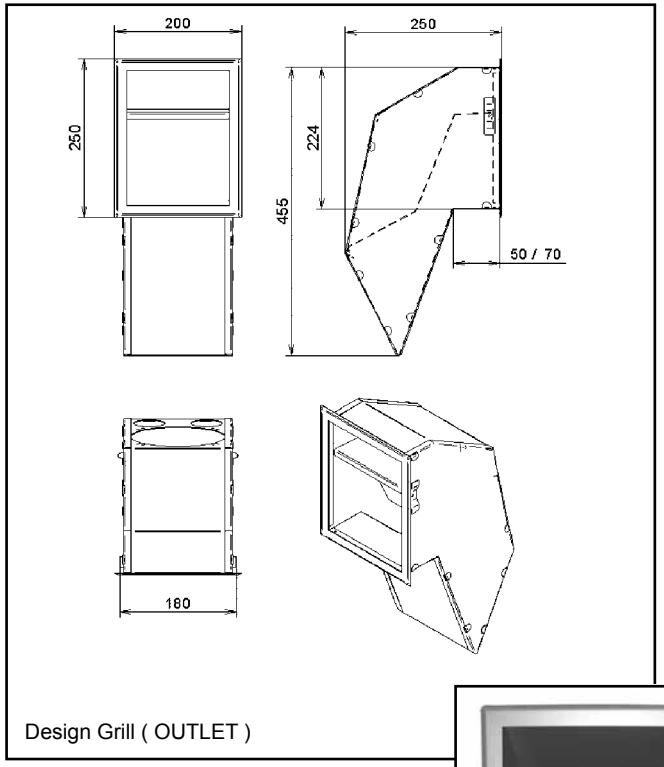
The appertures for the air supply “IN” (pic.2) is situated underneath the appliances. The stove may not be placed direct ont the floor to allow natural convection.

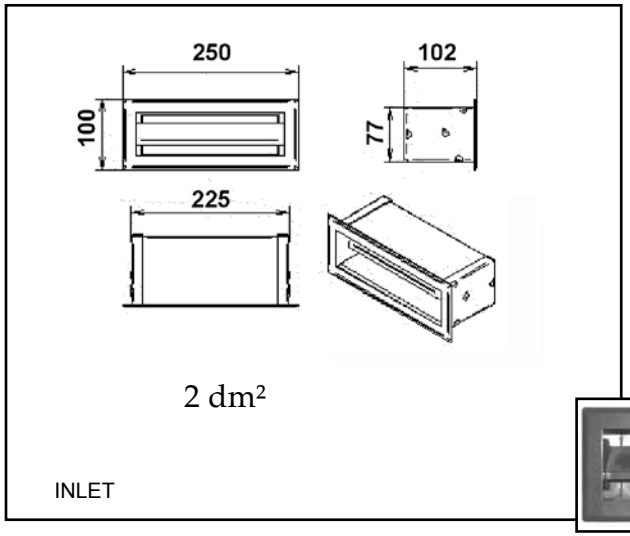
To simplify the mounting of the grids you can use the corner profile (a) wich is furnished with the grid. This profile is can be mounted on the side of the grid (two little wholes en screws are provided).

pic. 1

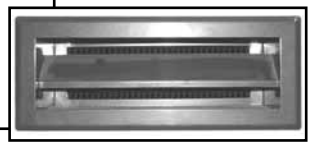
pic. 2

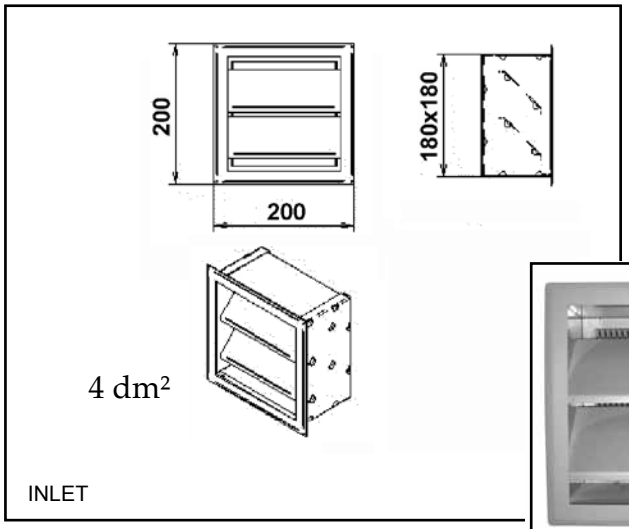

OUT
OUT
IN
IN


200
250
250
224
455
50 / 70
180
Design Grill (OUTLET)


250
102
100
77
225
2 dm²
INLET

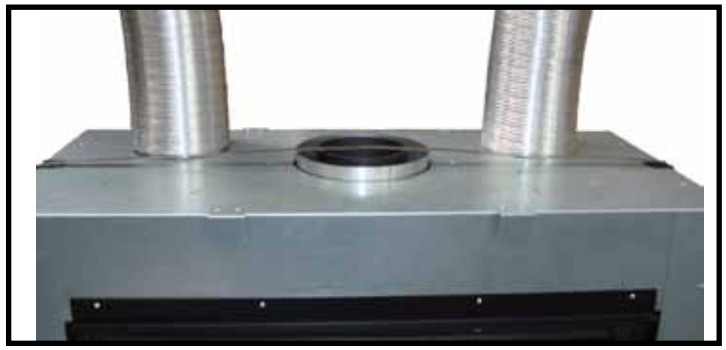
OR




200
180x180
200
4 dm²
INLET

YOU HAVE TO CONNECT AT LEAST TWO APPERTURES SITUATED AT THE TOP OF THE APPLIANCE. URES. THE STOVE MAY NOT BE PLACED DIRECT ON THE STOVE MAY NOT BE PLACED DIRECT ON THE FLOOR, WTHOUT THE FEETS. THIS TO ALLOW NATURAL CONVECTION. THE APPERTURES FOR THE AIR SUPPLY ARE SITUATED UNDERNEATH THE APLLIANCE.

EVERY OPENING YOU MAKE MUST BE CONNECTED WITH A FLEXIBLE TUBE dia.150MM (see pic. below). THIS WILL AVOID THE HEATING OF THE ELECTRONIC PART OF THEAPPLIANCE.
IN OTHER CASE YOU WILL HAVE ERRORCODE F02.



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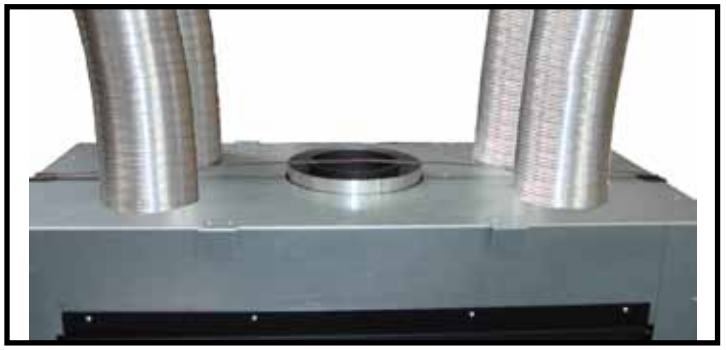
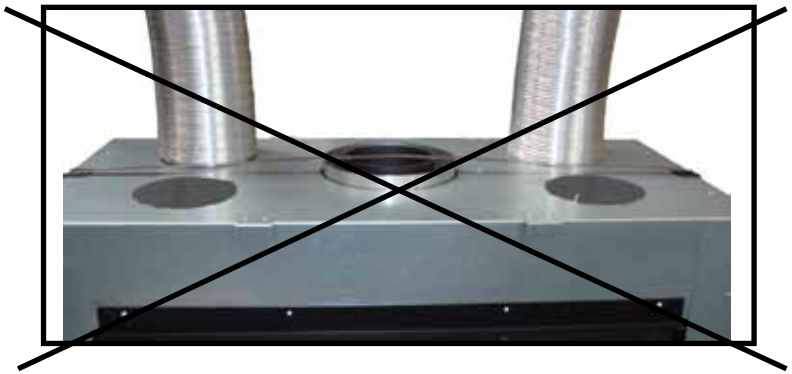
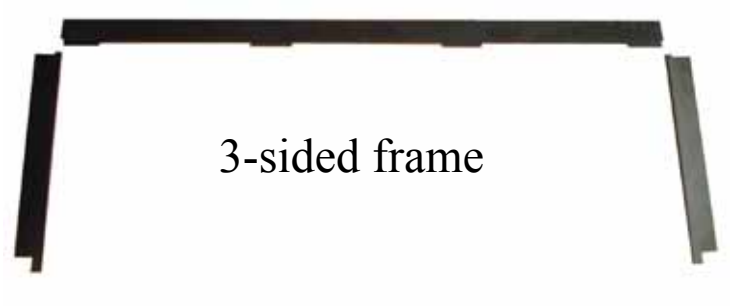
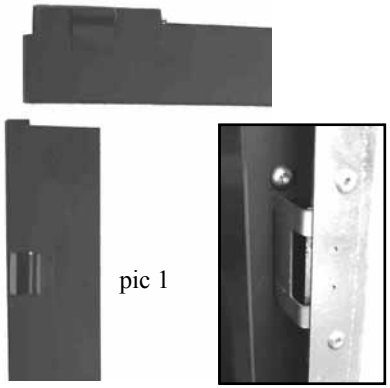


Good

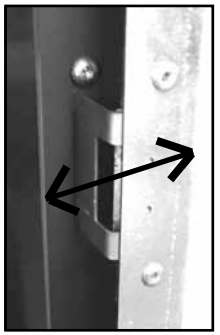


7. MOUNTING A 3-SIDED FRAME



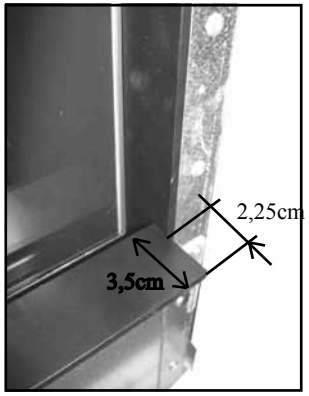


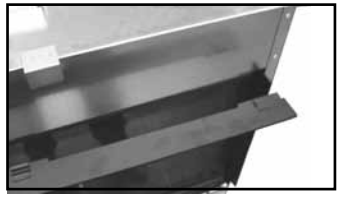
pic 1



pic 3

pic 4





pic 5

pic 6

Fireplace is delivered standard with 4sided frame 3,5cm, an upper and 2 sideframes (see pic. 2)

Before mounting the 3 sided frame, remove 4 sided frame (lower piece) by lift it carefully up. Pull out the upper frame and in second way the left and right sideframes. Take the left and right side of the 3 sided frame (3,5 - 7 or 10 cm) and slide them in the notches (see pic 4). When those are placed in a good way, you can adjust the position to the left en to the right and from the the front to the rear. At this way you can make the frame good surrounding. Mount the upper frame (pic 5) and at last the 4 sided frame (pic 6)

⚠ **PLEASE PAY ATTENTION TO LEAVE APPROX 2 MM INBETWEEN THE FRAME AND THE FINISHING MATERIAL (HEAT = EXPANSION)**

8. PUTTING IN PLACE THE LOGS, DIAMOND, SAPPHIRE AND WHITE STONES

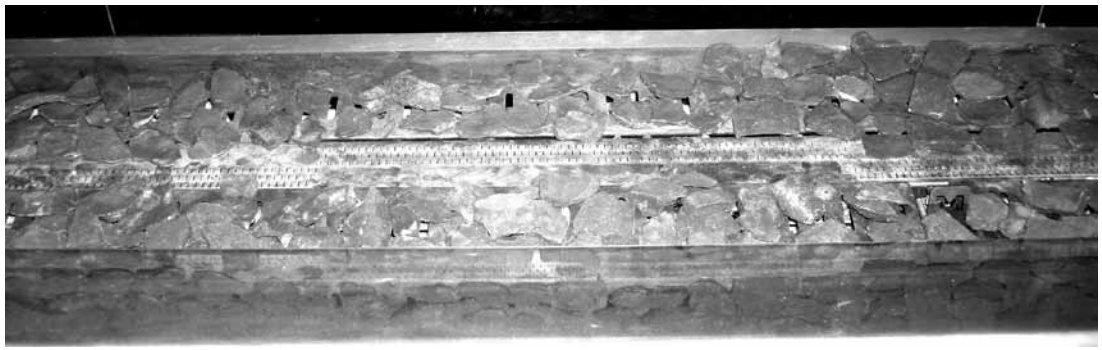
- Please check that the pilot light is switched off and that the furnace has cooled down.
- Move the window to the front by pulling it. The window tips open at 45°.
- Arrange the materials supplied. In accordance with your order you will have either a set of logs, diamond, sapphire or white pebbles. There is an adequate supply of materials . Our appliance is approved with these materials, so please do not use other products. Other decorative products are prohibited in our appliances. Please do not change the delivered quantities.

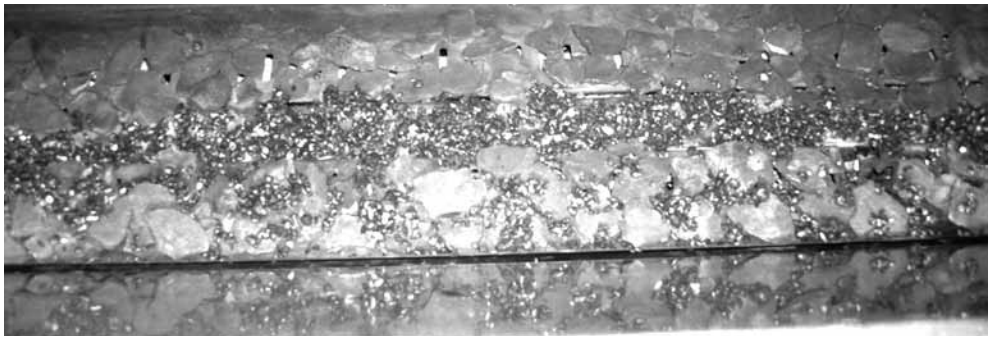
ARRANGING THE SET OF LOGS

Caution: do not put anything on the pilot light. To arrange the logs respect the order as follows.

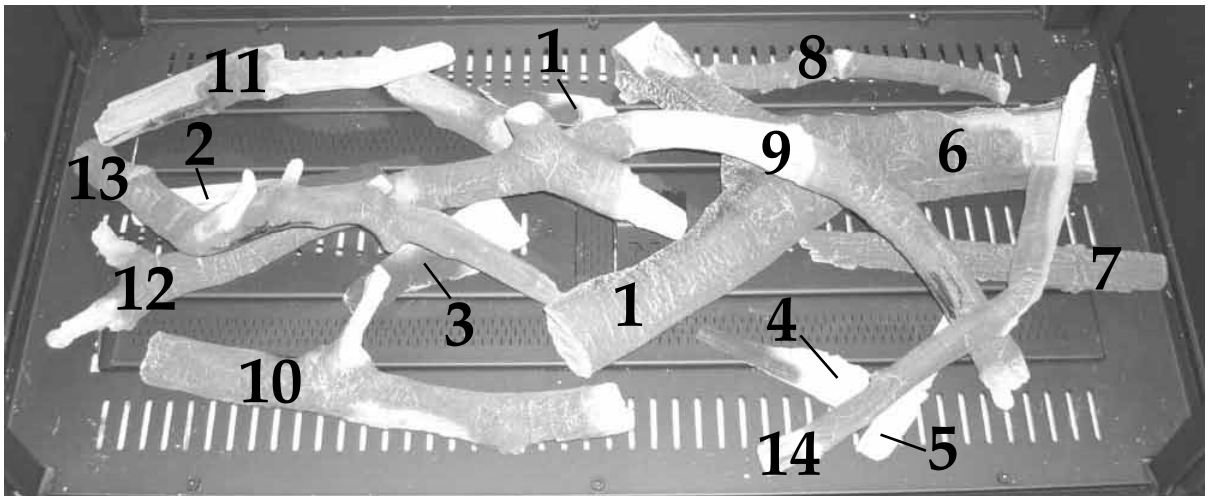
Put the big immitation coal pieces around the burner.

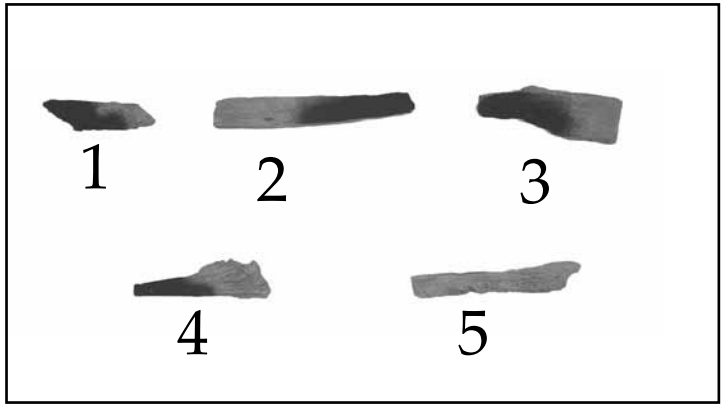
Put the little imitation coal pieces on the burner en here and there around the big coal pieces.

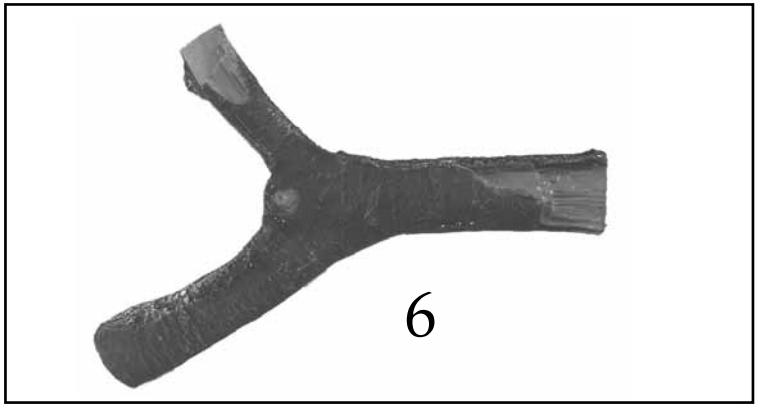


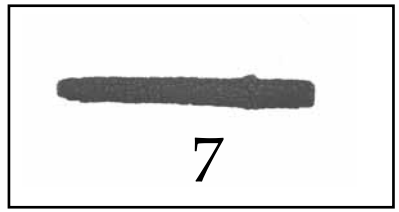


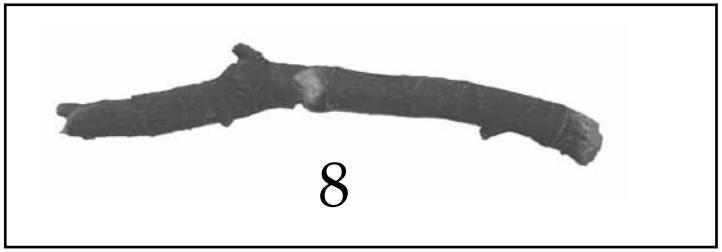
LUNA 850V / 850DVGAS

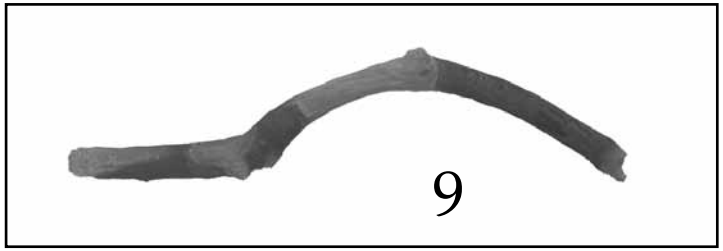


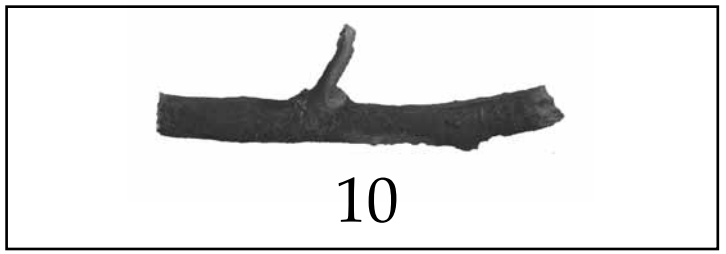


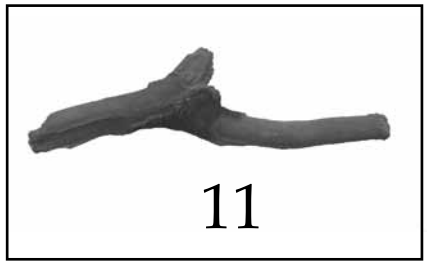


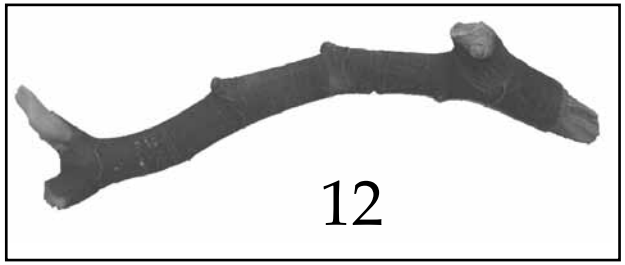


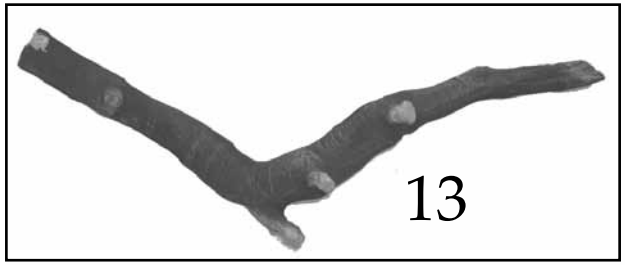


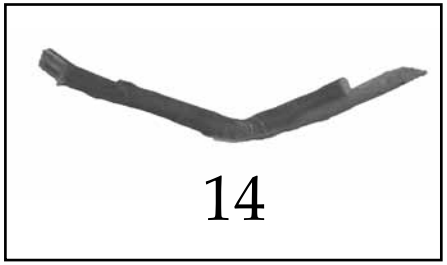


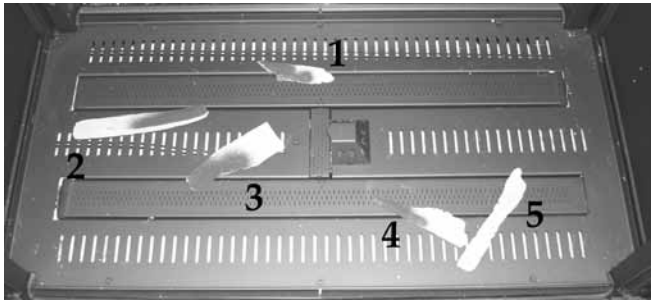


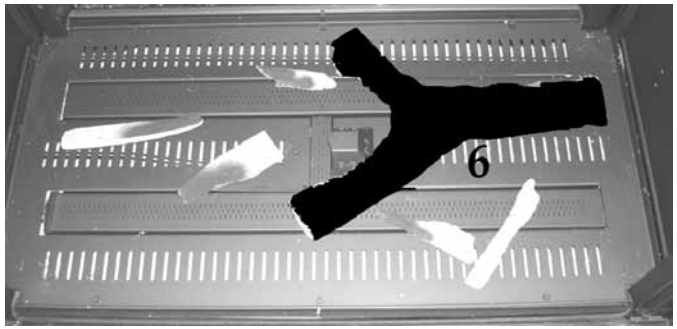


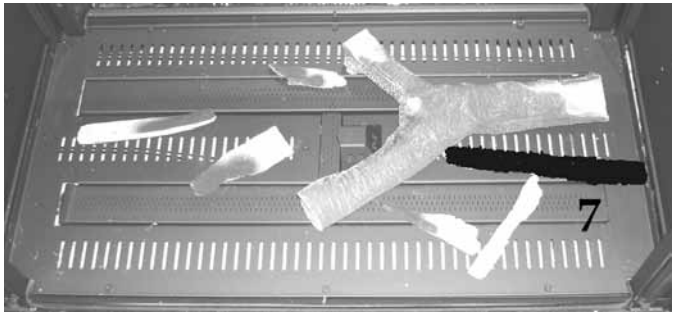


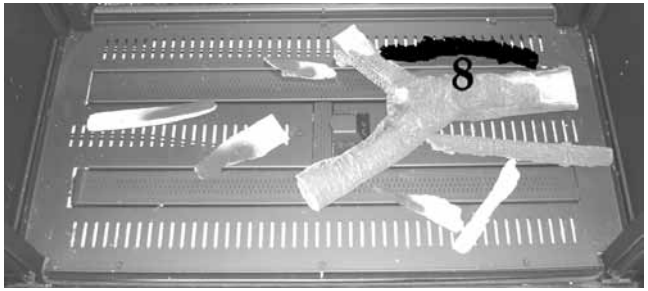


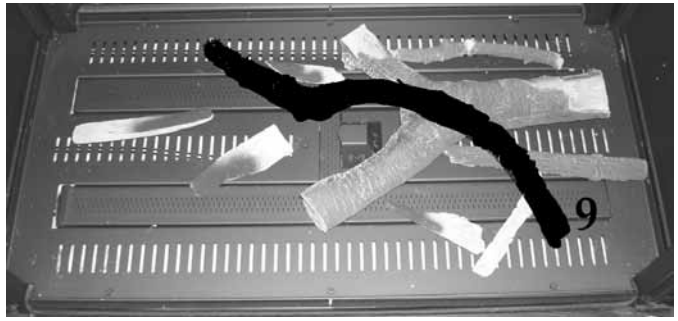


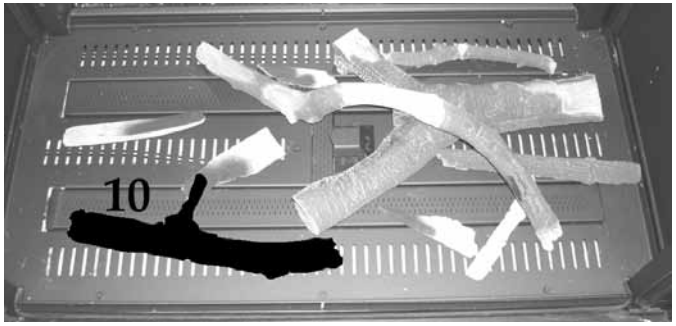


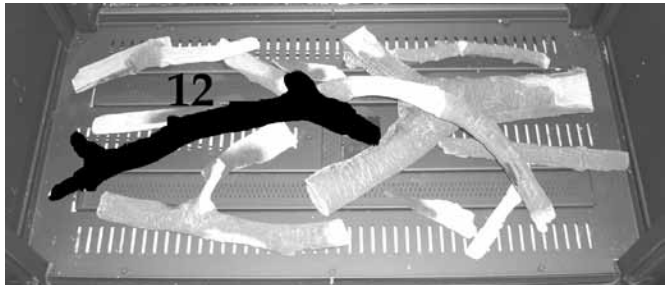


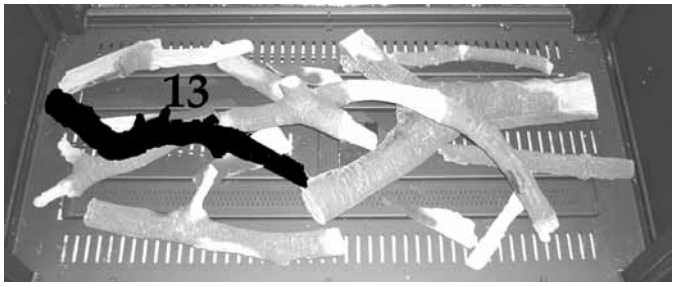


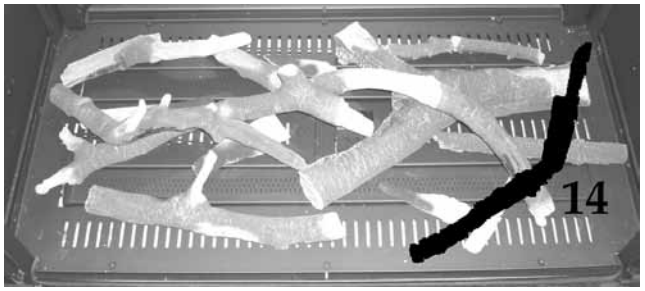




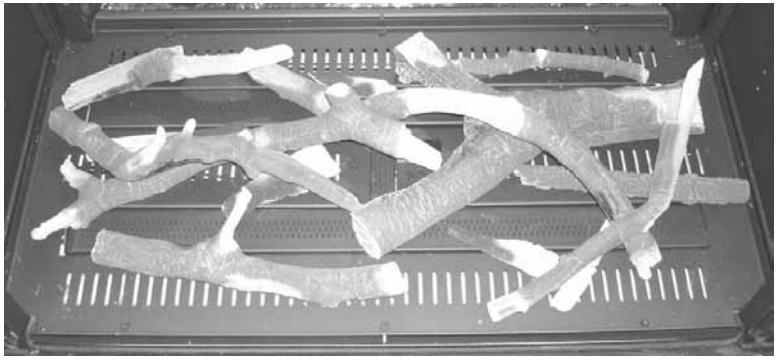








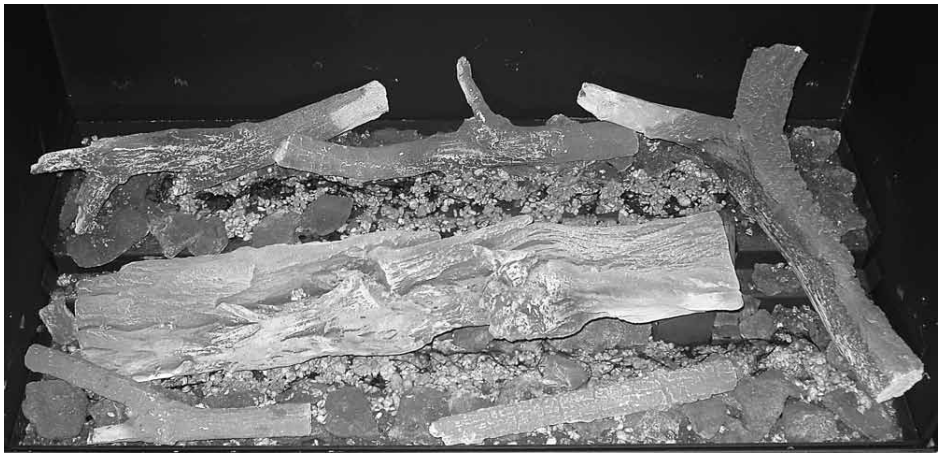
LUNA 850V 850DV GAS



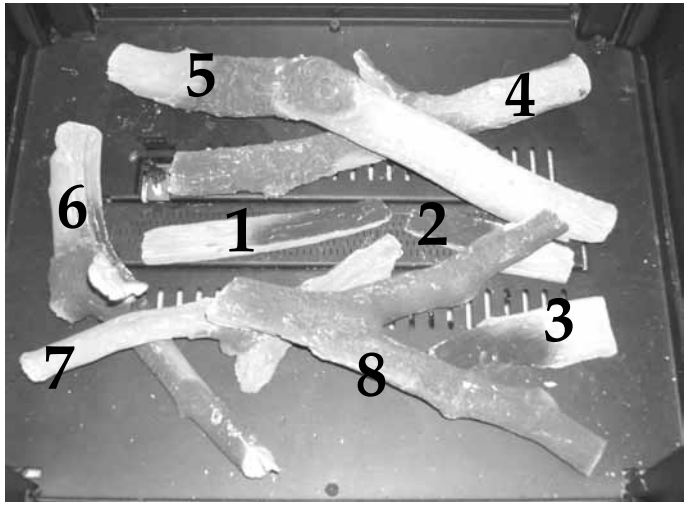
LUNA 850 V
GAS / GAZ

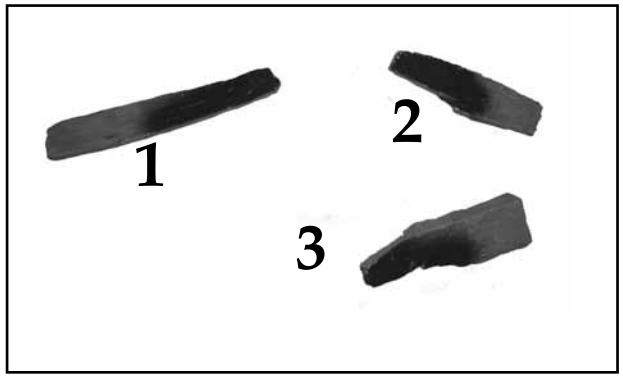
Only for 850V with two burners

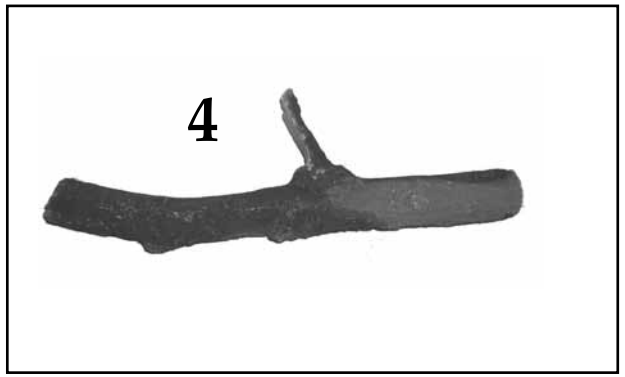
Seulement pour appareil 850V avec deux brûleurs en escaliers

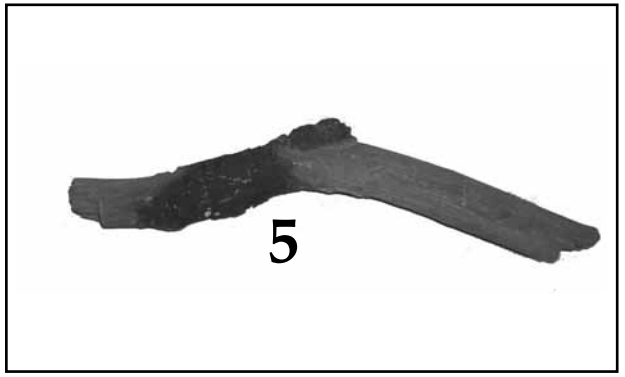


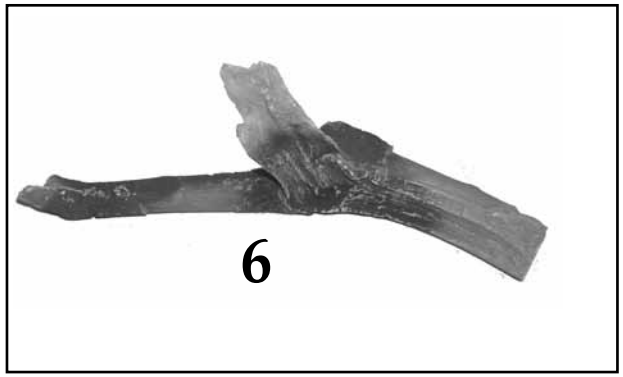
LUNA 550 V / 550 DV GAS

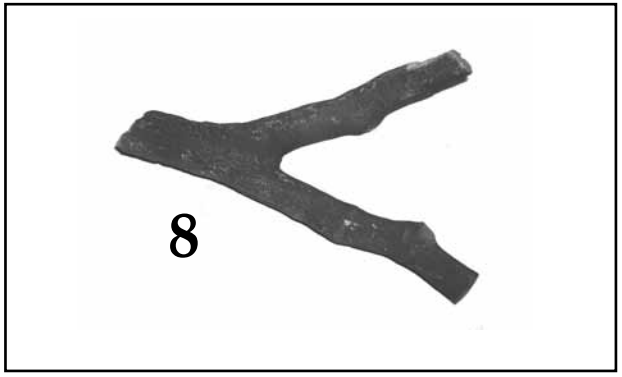


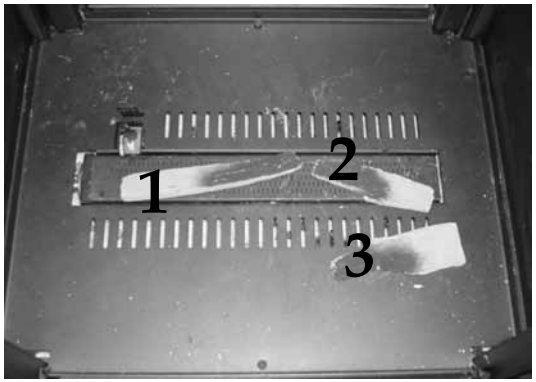


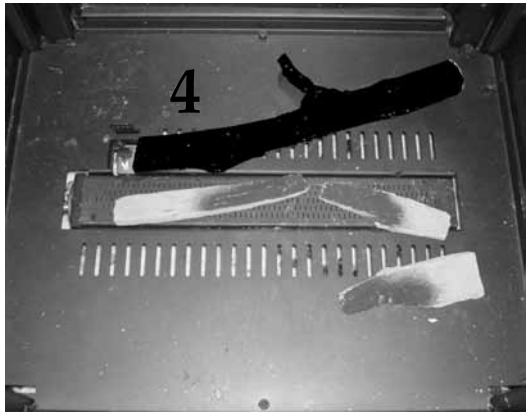


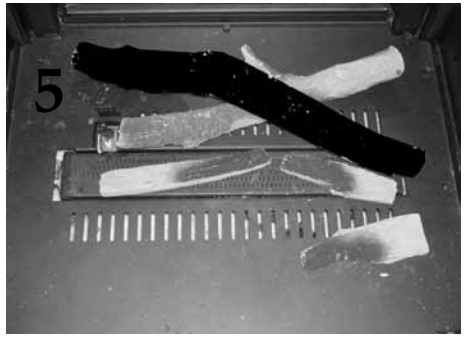


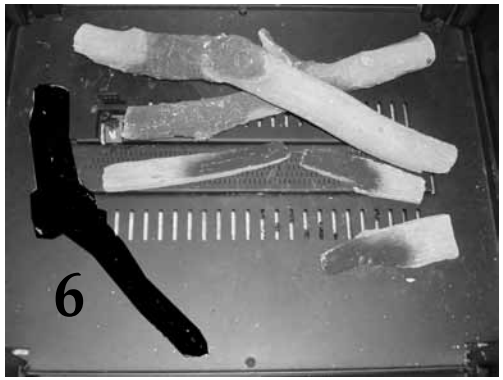


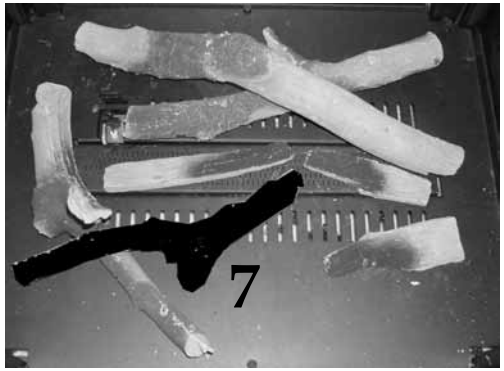


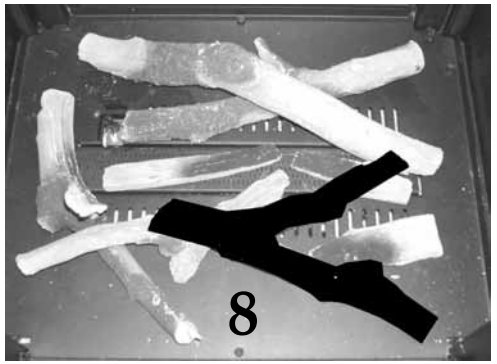












LUNA 550 V / 550 DV
GAS

9. FIRST-TIME USE

The masonry and plaster surrounding a recently installed furnace hold a great deal of moisture, which must first evaporate before commissioning the appliance. If not, the plaster may crack or split. Ask your installer about the timescale to follow. The first time you use it, only make a moderate-sized fire.
The first few times the furnace is used, an unpleasant odour may be apparent. It comes from the protective paintwork. These emissions are totally harmless. To quickly get rid of these odours, all you need to do is ventilate the room for a while.
After the first few fires, a light deposit may appear on the window. It comes from the paintwork. Once the furnace is cold you can get rid of this deposit by using M Design's Bio-Clean cleaning product. This product may be used later on for cleaning the window.
The appliance must not be used if the door no longer has a window or with the door open. If the window is broken or cracked, the appliance must not be used until the window has been replaced. Contact your M Design reseller.

10. SAFETY, ADVICE AND MAINTENANCE

MAINTENANCE GAS FIREPLACE M-DESIGN
THE M-DESIGN GAS FIREPLACES MUST BE CHECKED every 2 years and GET a MAINTENANCE. THIS IS ALSO TO MAINTAIN YOUR WARRANTY. IF THIS WILL BE NOT OBSERVED, THE WARRANTY FELL. YOU CAN RELY ON M-DESIGN TO MAKE THIS CHECK FOR YOU, OR YOU CAN DO THIS BY YOURSELF AND FOLLOW THE METHOD BELOW.

Please observe the following points:

- Closed appliances produce intense heat, which means that all the surfaces of the external walls (metal, door frames and windows) become very hot once a certain temperature is reached. Make sure that young children do not touch the window; this could result in severe burns.
- The logs, ceramic pebbles, a Diamond set and a Sapphire set are delivered with the furnace. Never put other objects in the flames!
- Keep inflammable materials a suitable distance from the furnace (min. 1m)!
- Never modify the settings yourself! The furnace warranty will then be considered as invalid, null and void.
- Never let children use the remote control without supervision.
- Always leave the pilot light on. The appliance is designed in order that the pilot light goes out automatically every 24 hours and lights instantly. This enables the electronic system to run down from static electricity.
- In the case where the burner goes out for any reason, wait for 3 minutes before relighting the furnace.

11. STARTPILOT

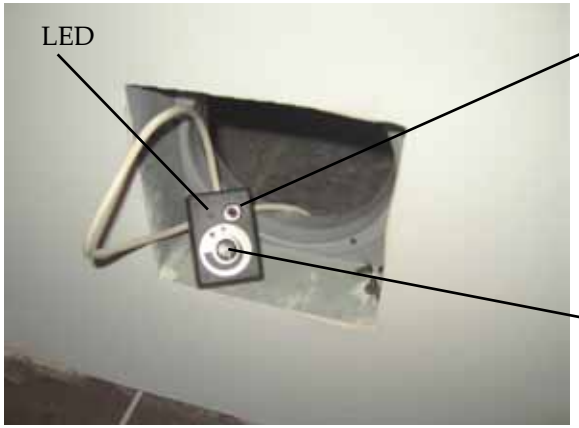
The M-Design Gas appliance are provided with “Constant startpilot”. After the first use or when the winterperiod is coming and you use the fireplace daily, you must let the startpilot switch ON. Don’t switch it off after each use.

This startpilot avoids condensation in the fireplace and protects the whole appliance and even the electronic parts against humidity. This startpilot has a very low gasconsumption.

12. USING THE MANUAL CONTROL (BLACK BOX)

On the user interface, a potentiometer is connected. This one will be used only when the remote control is broken.
st
DON’T USE THE POTENTIOMETER SIMULTANIOUSLY WITH THE REMOTE CONTROL TO SET THE REQUIRED LOAD.

When no ignition with remote control, set potentiometer knob “off” (turn left).
Push once on the black push button. You will hear the starpilot ignition.
Once you see the flame on the starpilot , just turn the potentiometer to the right to regulate the flames.
To switch off , turn the potentiometer to the left “off” and push once to extinguish the starpilot flame. Push a second time to swith off the whole fireplace.



13. SPECIFICATION SHEET

LUNA 850 V / 850 DV Gold gas

Type of Gas	NATURAL GAS		BUTANE-PROPANE / LPG			
Category	I_{2H} I_{2L} I_{2E+} I_{2E}		I_{3+} $I_{3B/P}$			
Category	G25	G20	G31			G30
Type	C_{11}, C_{31}, C_{31S}	C_{11}, C_{31}, C_{31S}	C_{11}, C_{31}, C_{31S}			C_{11}, C_{31}, C_{31S}
Entry pressure (mbar)	25	20	30	37	50	28-30
Burner pressure (mbar)	23.8	19,3	29	36	36	28,2
Consumption (m^3/h)	1.132	0,789	0,344	0,389	0,389	0,295
Burner injector Fr./Re.*	6 x 0,80 / 6x0.75	6 x 0,80 / 6 x 0,5	6 x 0,6	6 x 0,6	6 x 0,6	6 x 0,6
Pilot light injector	38/33A	38/33A	0.20P3	0.20P3	0.20P3	0.20P3
Output (%)	87	87,1	74	74	74	74
Nominal load (KW)	9,2	9,7	9,5	9,5	7,0	7,0
Output power (KW)	8,0	8,4	4,7	5,3	5,3	5,3
Emission classification NOX	5	5	5	5	5	5
Output category EC	1	1	2	2	2	2

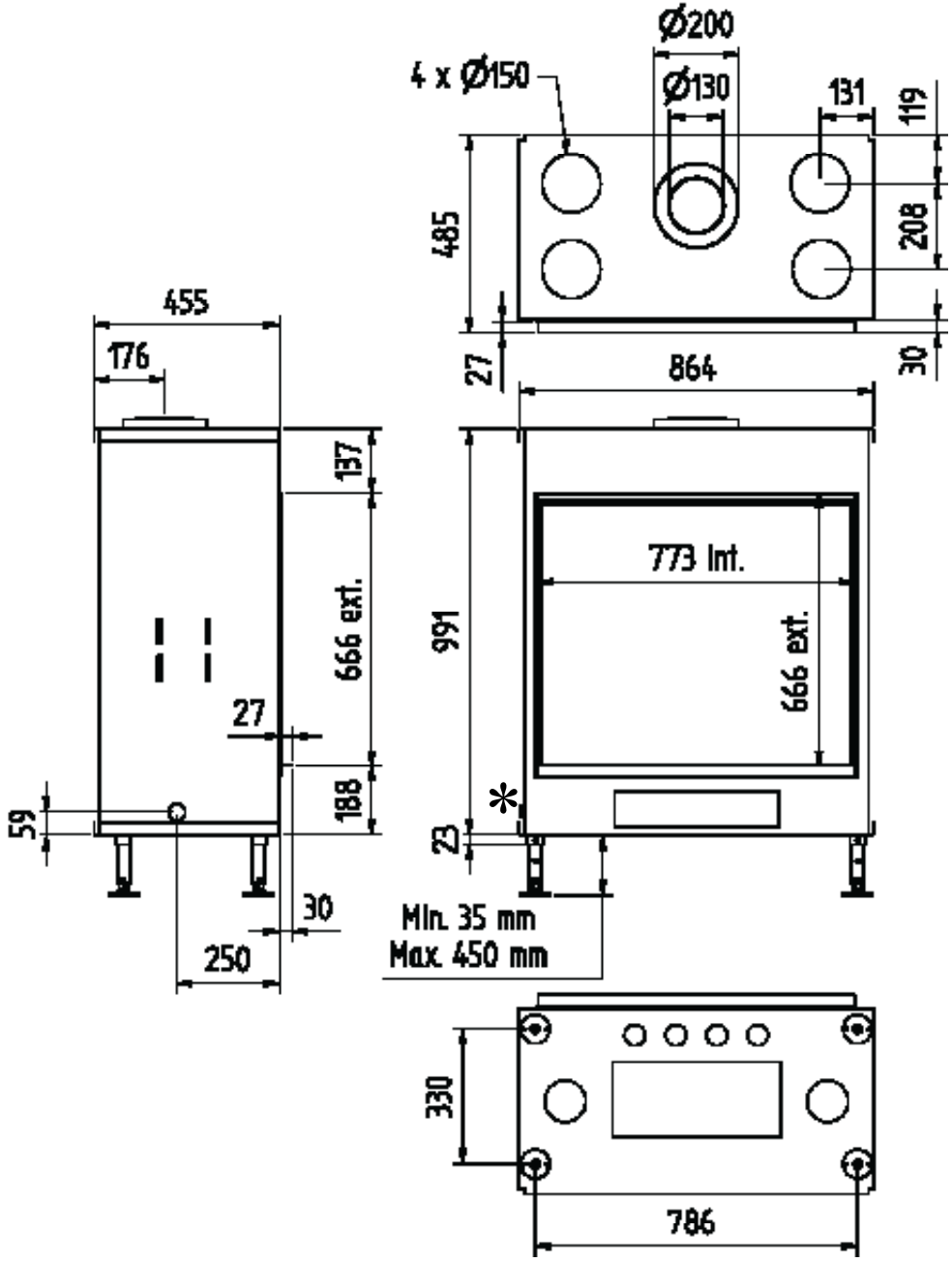
Fr/Re : front / rear

LUNA 550V / DV GOLD gas

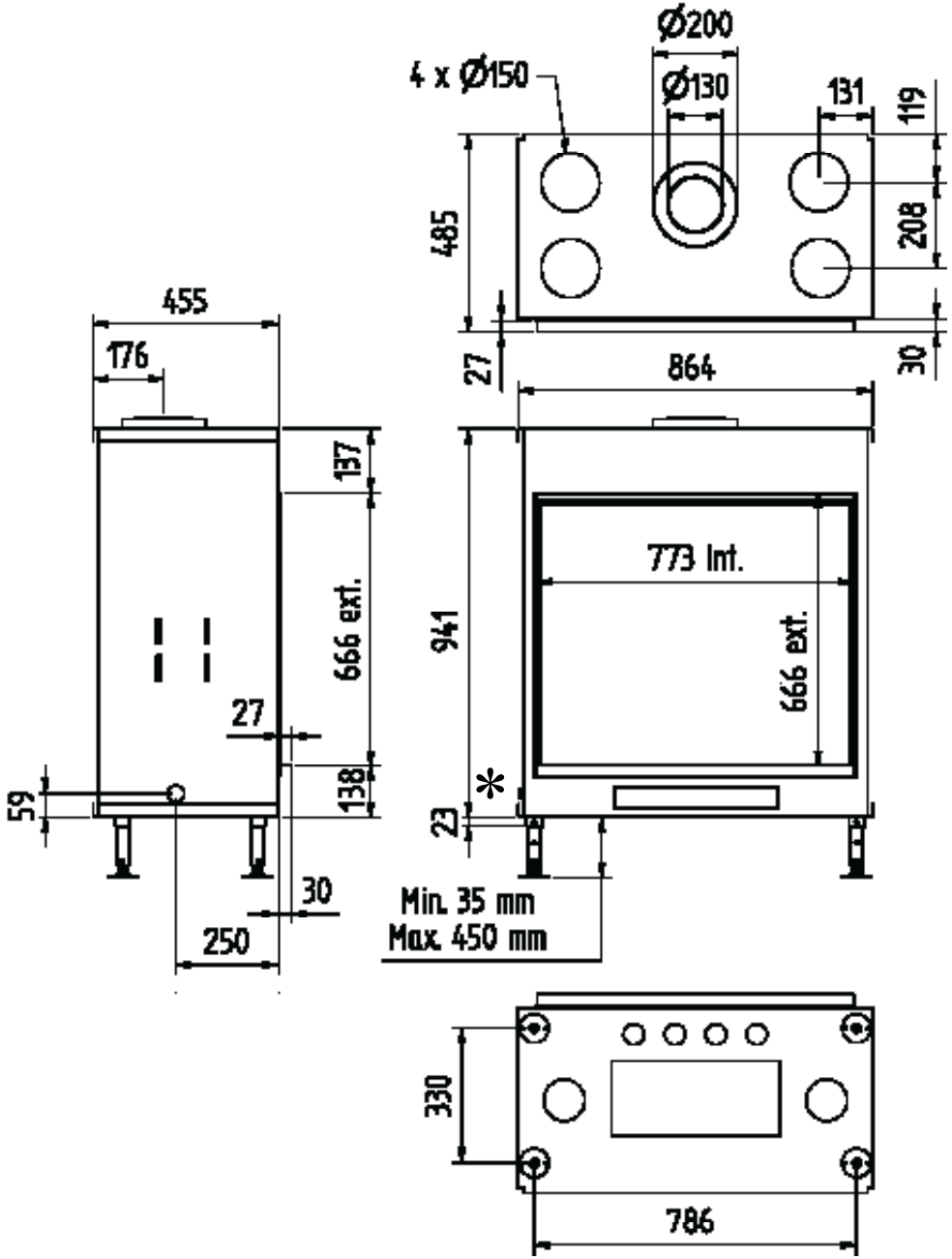
Type of Gas	NATURAL GAS		BUTANE-PROPANE / LPG			
Category	I_{2H} I_{2L} I_{2E+} I_{2E}		I_{3+} $I_{3B/P}$			
Category	G25	G20	G31			G30
Type /*Type*	C_{11}, C_{31}, C_{91}	C_{11}, C_{31}, C_{91}	C_{11}, C_{31}, C_{91}			C_{11}, C_{31}, C_{91}
Entry pressure (mbar)	25	20	30	37	50	28-30
Burner pressure (mbar)	23,28	19,1	29	36	36	28,2
Consumption (m^3/h)	1,132	1,026	0,344	0,389	0,389	0,295
Burner injector Fr./Re.*	6x0,85	6x0,85	6x0,50	6x0,50	6x0,50	6x0,50
Pilot light injector	38/33A	38/33A	0.20P3	0.20P3	0.20P3	0.20P3
Output (%)	87	87	74	74	74	74
Nom.Belasting / *Charge nominale* (KW)	6,2	6,5	5,7	6,3	6,3	6,3
Nuttig vermorgen *Puissance utile* (KW)	5,3	5,6	5,3	5,6	5,6	5,6
Klassement NOX-emmissie *Classement d'émission NOX*	5	5	5	5	5	5
Cat. Rendement CE *Catégorie rendement CE*	1	1	2	2	2	2

LUNA 850 V GOLD GAS

* connection gas on the left side



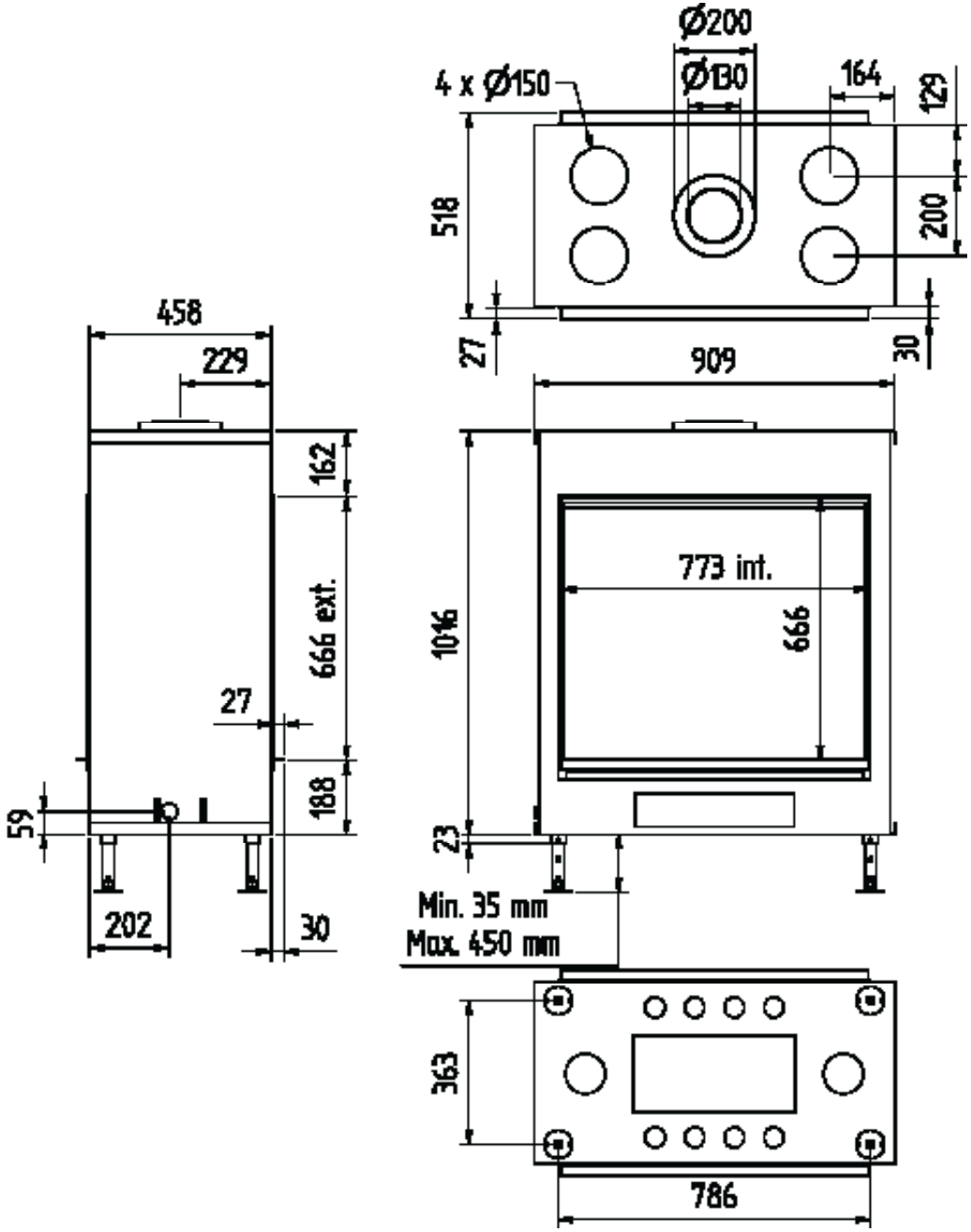
850V with one burner (saphir, diamon, white stones)



850V with two burner (woodset)

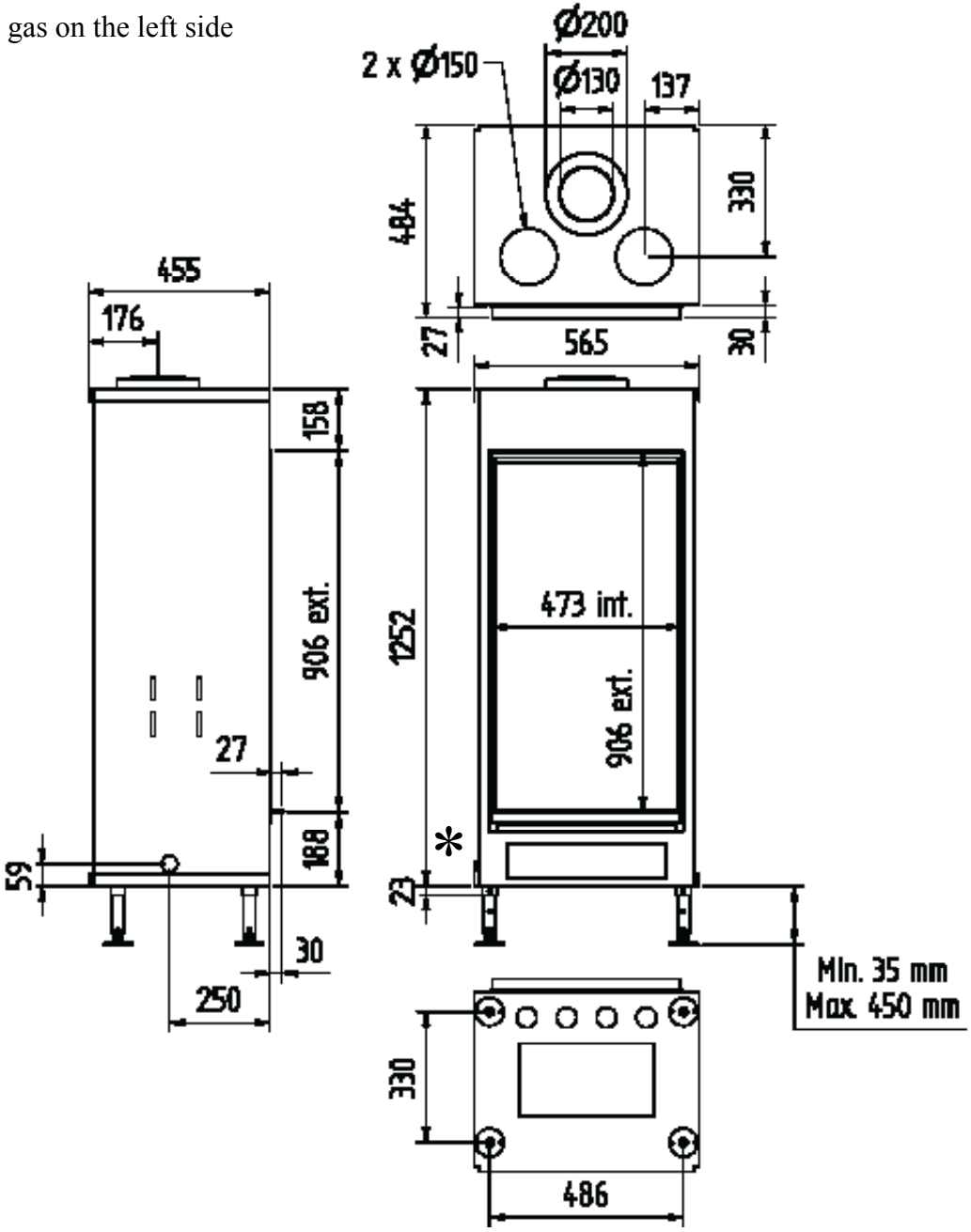
LUNA 850 DV GOLD GAS

* connection gas on the



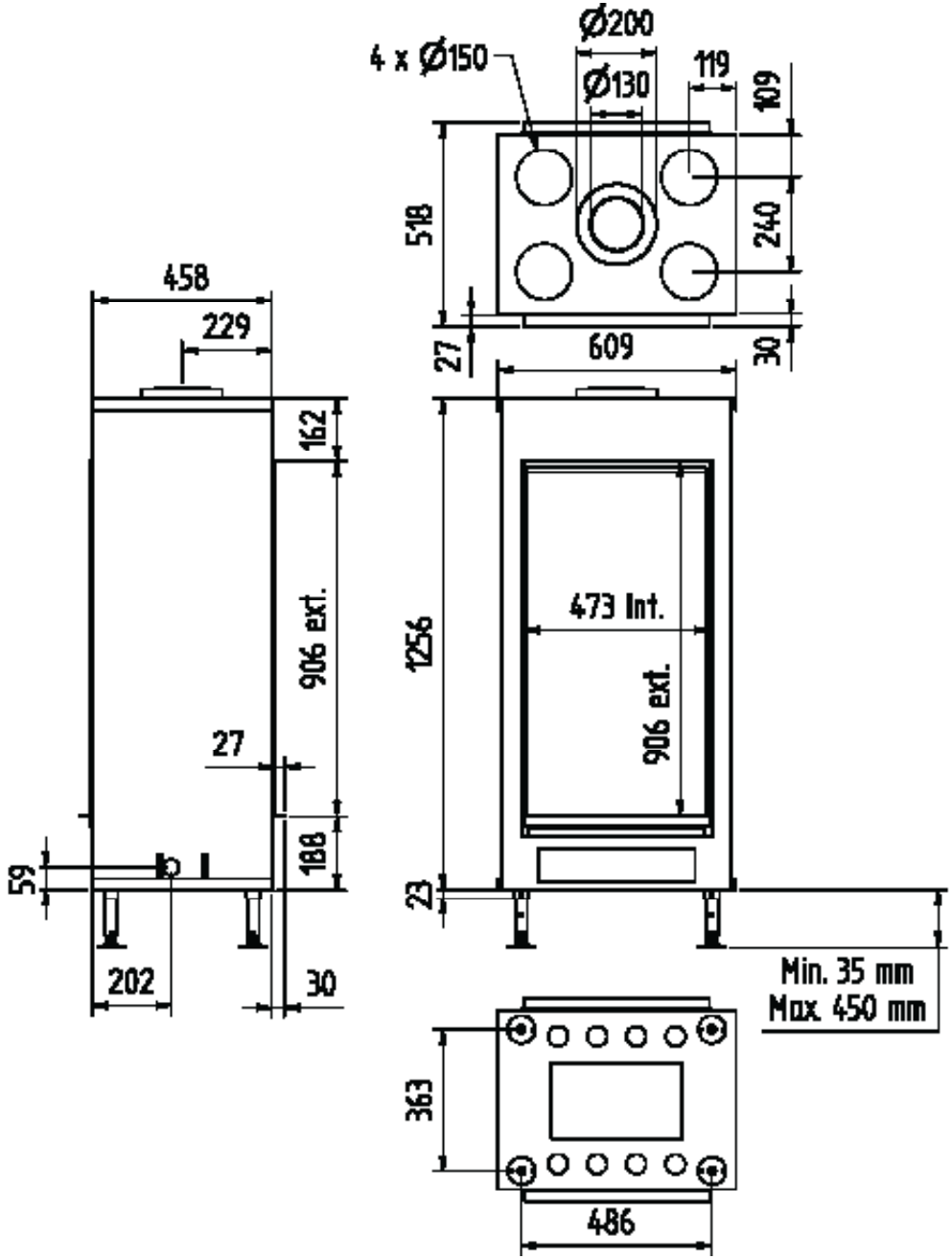
LUNA 550 V GOLD GAS

* connection gas on the left side

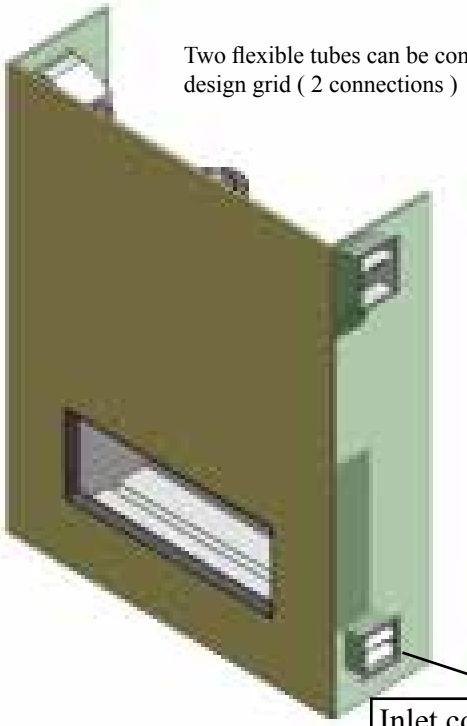


LUNA 550 DV GOLD GAS

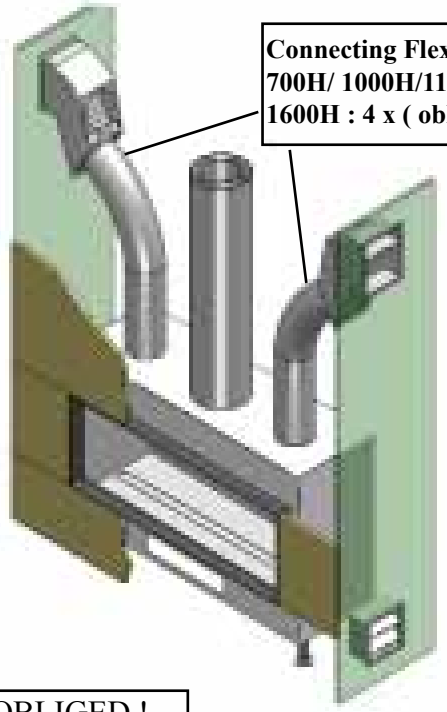
* connection gas on the left side



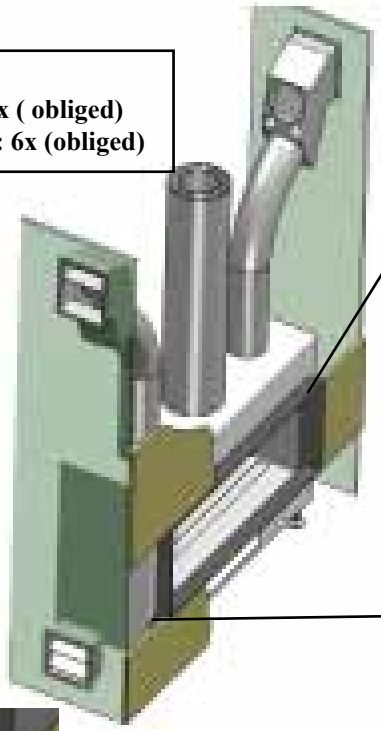
Example how to mount with a 4-sided frame



Two flexible tubes can be connected to one design grid (2 connections)



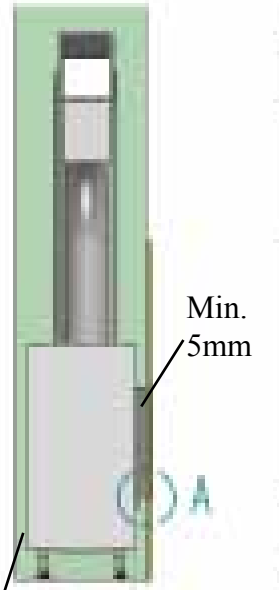
Connecting Flex tubes
700H/ 1000H/1150H/1300H : 2x (obliged)
1600H : 4 x (obliged) / 1900H : 6x (obliged)

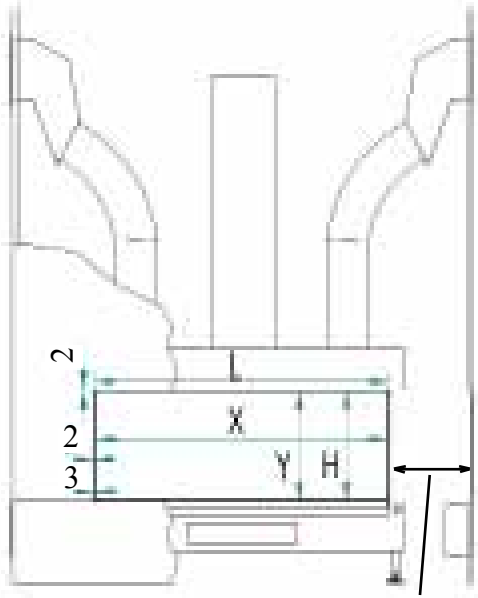


4-sided frame 3,5 - 7 or 10 cm

Inlet convection: OBLIGED !

Minimum distance to wich can be mounted





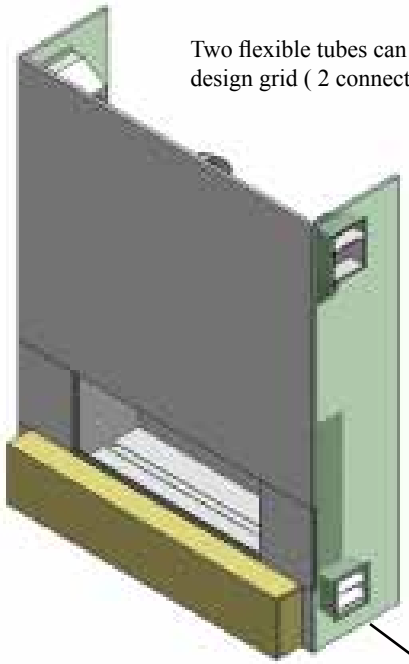
Min. distance between appliance and maconery : 4cm

TYPE	X	L	Y	H
700H	623	633	406	408
1000H/DH	923	933	406	408
1150H/DH	1073	1083	406	408
1300H/DH	1223	1233	406	408
1600H/DH	1523	1533	406	408
1900 H	1823	1833	406	408
550V/DV	473	483	906	908
850V/DV	773	783	666	668

Apperture to make
L = X + 3mm + 3mm + 2mm + 2mm
H = Y + 2mm

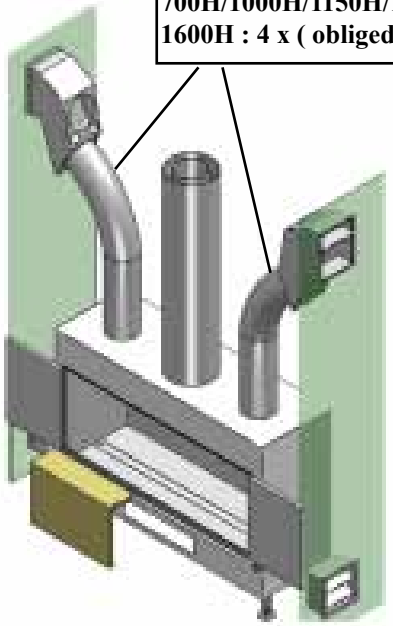
X = inside measurement frame (finished size)
Y = measurment from underneath 4th side frame till upper side frame above window
3 mm = thickness frame
2 mm = gap between frame and maconery

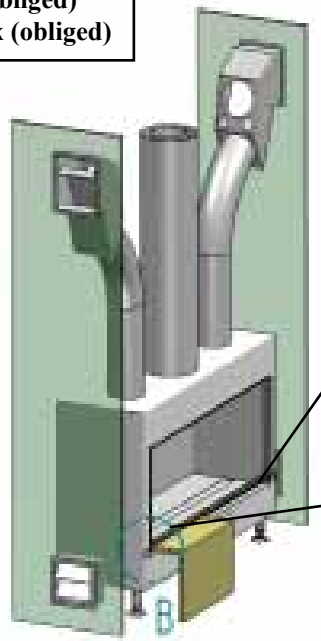
Example how to mount without a 4-sided frame



Two flexible tubes can be connected to one design grid (2 connections)

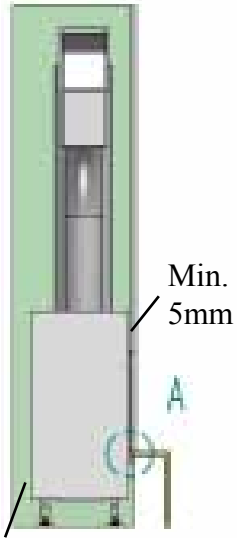
Connecting Flex tubes
700H/1000H/1150H/1300H : 2x (obliged)
1600H : 4 x (obliged) / 1900H : 6 x (obliged)





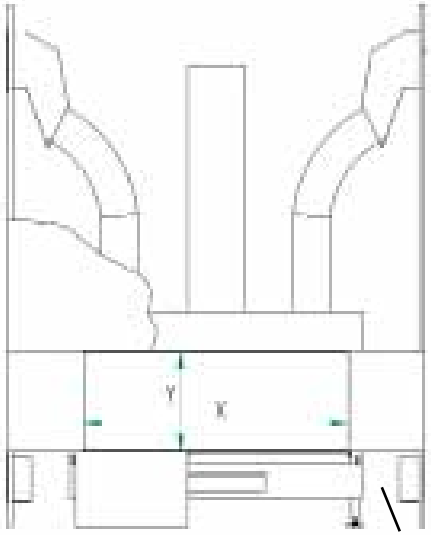
4-sided frame 3,5 - 7 or 10 cm

Inlet convection: OBLIGED !



Min. 5mm

Min. 4cm

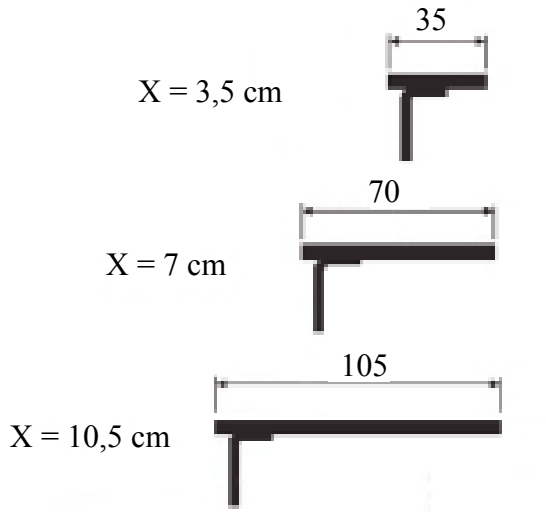


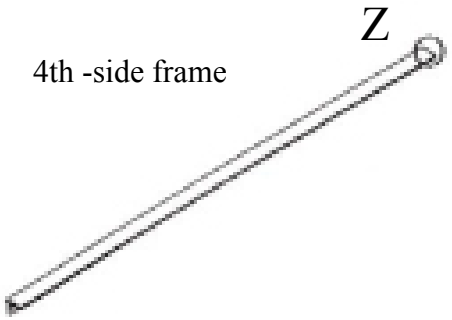
Min. distance between appliance and maconery : 4cm

TYPE	X	Y
700H	623	406
1000H/DH	923	406
1150H/DH	1073	406
1300H/DH	1223	406
1600H/DH	1523	406
1900 H	1823	406
550V/DV	473	906
850V/DV	773	666

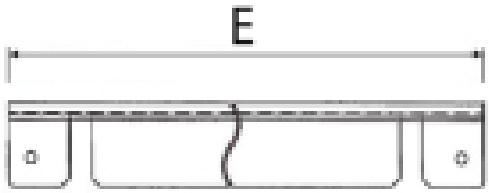
X = inside measurement frame (finished size)
Y = measurment from underneath 4th side frame till upper side frame above window (finishing size)

4-sided frame

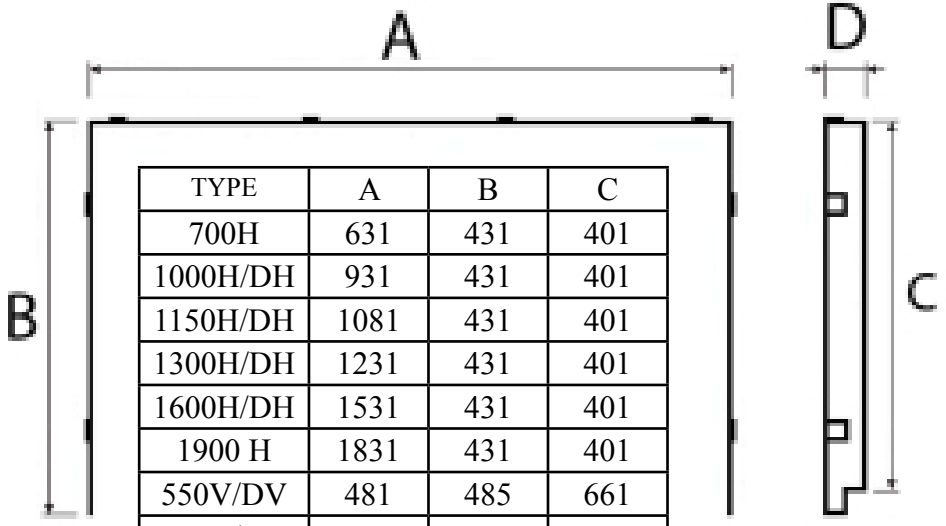




DETAIL Z



TYPE	A
700H	623
1000H/DH	923
1150H/DH	1073
1300H/DH	1223
1600H/DH	1523
1900 H	1823
550V/DV	473
850V/DV	773

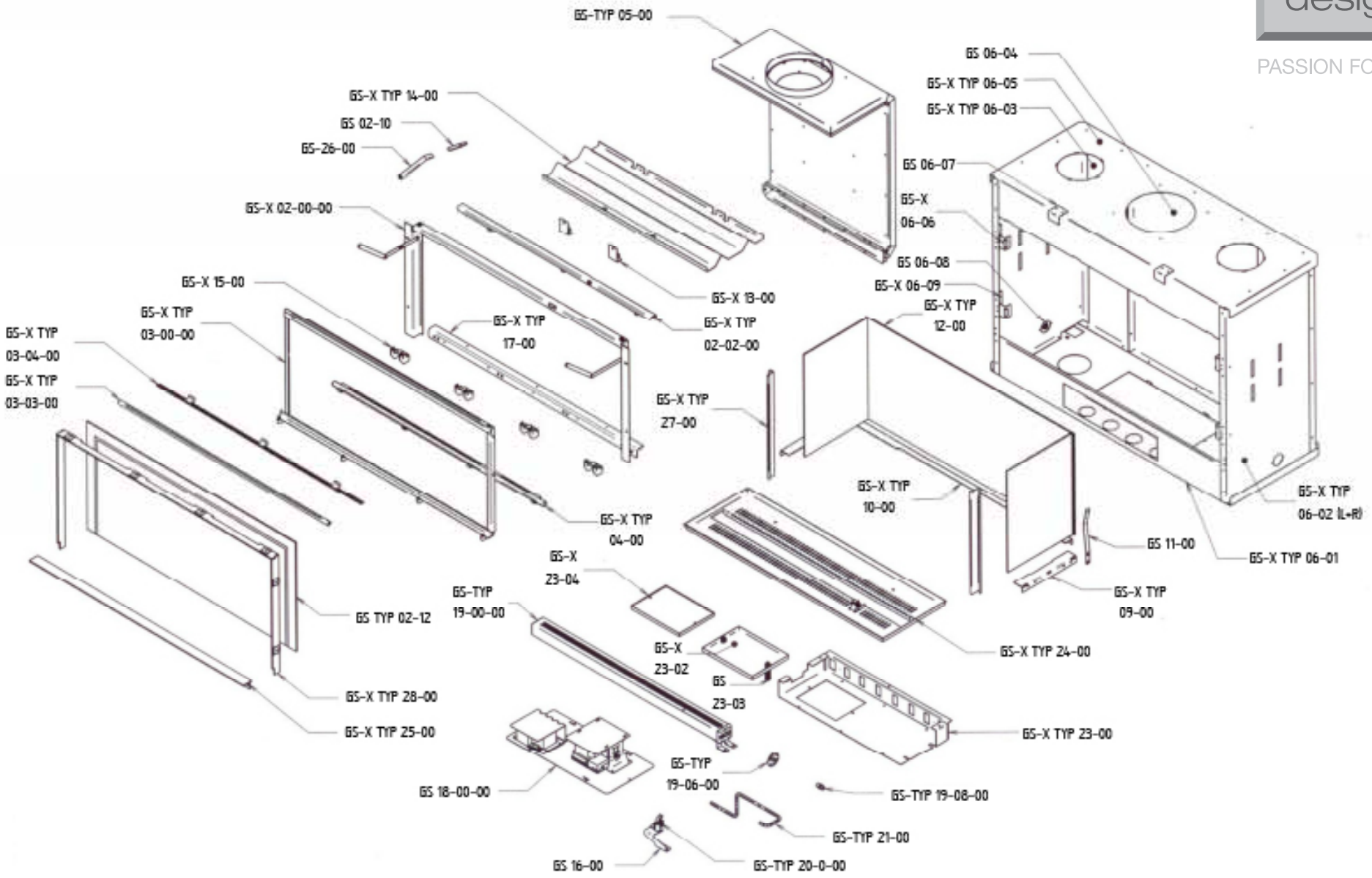


TYPE	A	B	C
700H	631	431	401
1000H/DH	931	431	401
1150H/DH	1081	431	401
1300H/DH	1231	431	401
1600H/DH	1531	431	401
1900 H	1831	431	401
550V/DV	481	485	661
850V/DV	781	931	901

TYPE	D
35	57
70	92
105	127

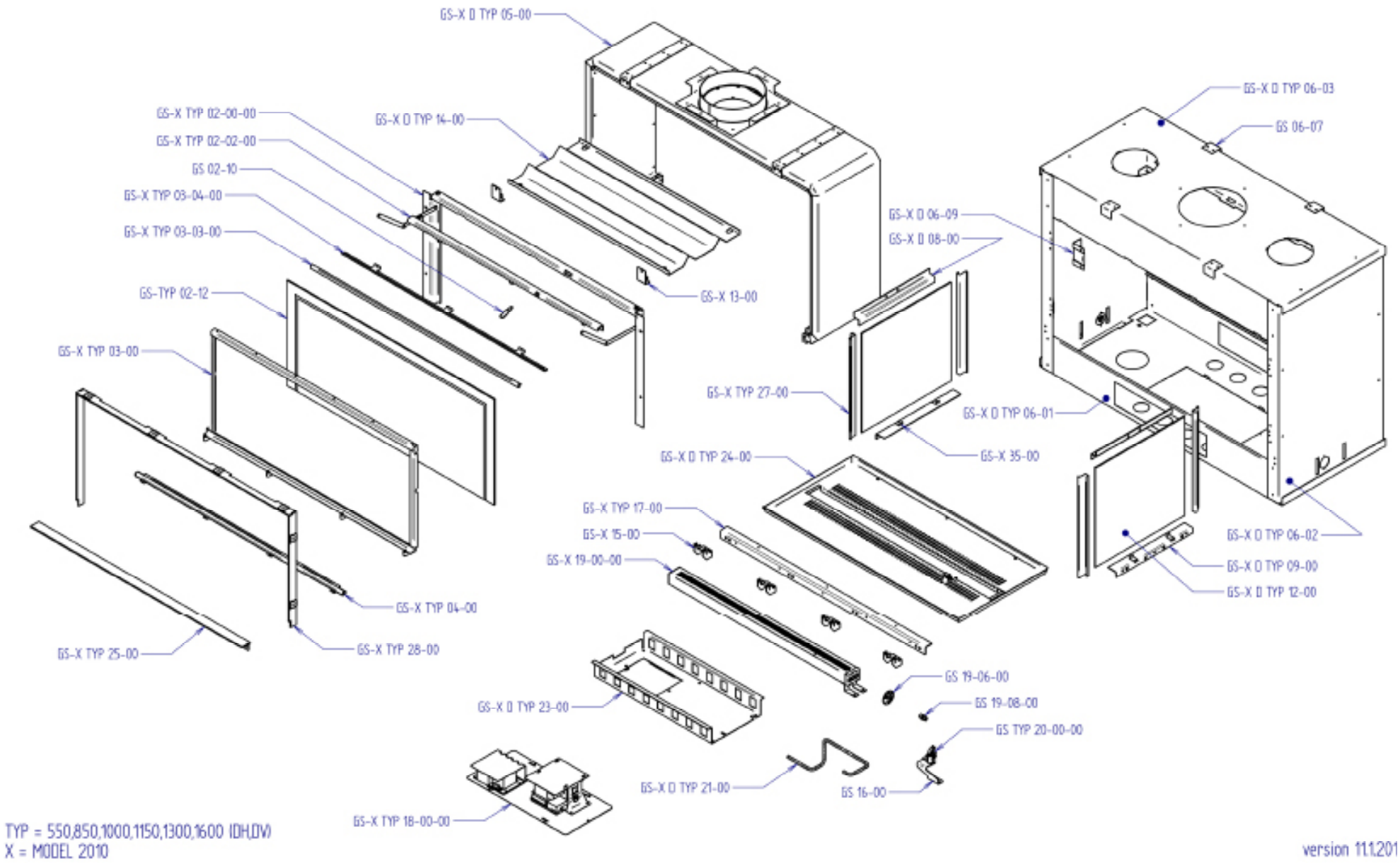
14. SPARE PARTS

X = 850V, 550V,



14. SPARE PARTS

X = 850DV, 550DV



15. GUARANTEE

This page is your warranty card.

The guarantee is only valid for faults caused by construction defects or defects in the parts used to build the furnace.
M-Design offers a 12 month guarantee on all electronic parts and a 8 year guarantee on the furnace construction.

Caution: The following items are always excluded from the guarantee:

- The glass, door, joints and internal decor.
- The defects which occur are fully or partially a consequence of
- Non respect of the order, installation and maintenance instructions
- Assembly, installation or repair by a third-party, including the buyer
- Heat cracks which normally occur in the mantel
- In cases where changes have been made to the furnace without our consent
- In cases where the buyer cannot show his/her warranty card with the purchase invoice. Likewise where the guarantee and/or the invoice show(s) signs of tampering or forgery (crossed out date, illegible, modifications).

In the case you would like to make use of the manufacturer's warranty, you should contact your reseller in the first instance. Please take good care of your purchase invoice and warranty card and store them in a safe place.

SERIAL NUMBER

open the door :
in left or right corner
engraved number

IDENTIFICATION BOARD (till 11/2012)

SERIAL NUMBER

this is situated at the left side of the appliance.

INDENTIFICATION BOARD

As from 11/2012 : under the 4sided frame

Your serial number :

.....

16. IDENTIFICATION BOARDS

BN M-DESIGN

MN LUNA 550V Gold

CE 0461/2010 PN 0461BS0880

Serie N° _____

C	GC	P	Qn(Hi) kW	Pn (Hi) kW	V m³/h
BE/FR	I2E+	G20/G25-20/25mbar	6.5	5.6	1.026
DE/LU/PL	I2E	G20 - 20 mbar	6.5	5.6	1.026
NL	I2L	G25 - 25 mbar	6.2	5.3	1.132
AT/CH/CY/CZ/DK/ EE/ES/FI/GB/GR/ IE/IT/LT/LV/NO/ PT/RO/SE/SI/SK	I2H	G20 - 20 mbar	6.5	5.6	1.026
BE/CH/CY/CZ/ES/ FR/GB/GR/IE/IT/ LT/PT/SI	I3+	G30/G31- (28-30)/37mbar	6.3	5.6	0.389
CY/DK/EE/HU/IT/ LT/NL/NO/SE/SI/ SK/RO/TR/BG/IS/ LU/MT	I3B/P	G30 - 30 mbar	6.3	5.6	0.295
AT/CH/DE/LU	I3B/P	G30 - 50 mbar	6.3	5.6	0.389

Aardgas/Gaz naturel/Natural Gas/Erdgas G20/20 mbar // G25/25 mbar // G20-G25/20-25 mbar ☐

LPG / GPL / FLÜSSIG GAS G30/(28-30) mbar // G30/50 mbar // G30/G31-(28-30)/37 mbar ☐

Rendementsklasse CE / Categorie Rendement CE / Efficiency class CE / Klasse Wirkungsgrad CE

Aardgas/Gaz naturel/Natural Gas/Erdgas : 1 **LPG / GPL / FLÜSSIG GAS : 2**

BN = merk-marque-brand name-marke
MN = model-type
C = land van bestemming-pays de destination-country of destination-Bestimmungsland
GC = gascategorie-catégorie de gaz-gas category-Gasart
SN = serienummer-numéro de serie-serial number-Seriennummer
PN = pinnumer-numéro pin-pin number-PIN-nummer

C11 / C31 / C91

230 VAC - 50 Hz
0,025 kW

NL : Raadpleeg eerst zorgvuldig het instructieboekje voordat u het toestel plaatst en in gebruik neemt.De installatie van dit toestel dient te geschieden door een erkend gasinstallateur,volgens de landelijke en plaatselijk geldende voorschriften, in een voldoende geventileerde ruimte.
FR : Avant d'installer et d'utiliser l'appareil, lisez attentivement le livret d'instructions. L'installation de cet appareil être réalisée par un installateur agrée dans un local suffisament ventilé selon les prescriptions nationales et locales en vigueur.
EN : Before installing and use the appliance please read carfully through the instruction manual. The installation needs to be done by a certified gas installer in accordance with the local legislation en rules. The room has to be ventilated sufficiently.
DE : Lesen Sie zuerst sorgfältig das Handbuch, bevor Sie das Gerat aufstellen und in Betrieb nehmen.
Die Installation des Geräts muss durch einen anerkannten Gas-Installateur erfolgen, und zwar nach den nationalen und lokalen Vorschriften. Das Gerat ist nur in ausreichend belüfteten Räumen zu betreiben

BN M-DESIGN

MN LUNA 550DV Gold

CE 0461/2010 PN 0461CL0981

Serie N° _____

C	GC	P	Qn(Hi) kW	Pn (Hi) kW	V m³/h
BE/FR	I2E+	G20/G25-20/25mbar	6.5	5.6	1.026
DE/LU/PL	I2E	G20 - 20 mbar	6.5	5.6	1.026
NL	I2L	G25 - 25 mbar	6.2	5.3	1.132
AT/CH/CY/CZ/DK/ EE/ES/FI/GB/GR/ IE/IT/LT/LV/NO/ PT/RO/SE/SI/SK	I2H	G20 - 20 mbar	6.5	5.6	1.026
BE/CH/CY/CZ/ES/ FR/GB/GR/IE/IT/ LT/PT/SI	I3+	G30/G31- (28-30)/37mbar	6.3	5.6	0.389
CY/DK/EE/HU/IT/ LT/NL/NO/SE/SI/ SK/RO/TR/BG/IS/ LU/MT	I3B/P	G30 - 30 mbar	6.3	5.6	0.295
AT/CH/DE/LU	I3B/P	G30 - 50 mbar	6.3	5.6	0.389

Aardgas/Gaz naturel/Natural Gas/Erdgas G20/20 mbar // G25/25 mbar // G20-G25/20-25 mbar ☐

LPG / GPL / FLÜSSIG GAS G30/(28-30) mbar // G30/50 mbar // G30/G31-(28-30)/37 mbar ☐

Rendementsklasse CE / Categorie Rendement CE / Efficiency class CE / Klasse Wirkungsgrad CE

Aardgas/Gaz naturel/Natural Gas/Erdgas : 1 **LPG / GPL / FLÜSSIG GAS : 2**

BN = merk-marque-brand name-marke
MN = model-type
C = land van bestemming-pays de destination-country of destination-Bestimmungsland
GC = gascategorie-catégorie de gaz-gas category-Gasart
SN = serienummer-numéro de serie-serial number-Seriennummer
PN = pinnumer-numéro pin-pin number-PIN-nummer

C11 / C31 / C91

230 VAC - 50 Hz
0,025 kW

NL : Raadpleeg eerst zorgvuldig het instructieboekje voordat u het toestel plaatst en in gebruik neemt.De installatie van dit toestel dient te geschieden door een erkend gasinstallateur,volgens de landelijke en plaatselijk geldende voorschriften, in een voldoende geventileerde ruimte.
FR : Avant d'installer et d'utiliser l'appareil, lisez attentivement le livret d'instructions. L'installation de cet appareil être réalisée par un installateur agrée dans un local suffisament ventilé selon les prescriptions nationales et locales en vigueur.
EN : Before installing and use the appliance please read carfully through the instruction manual. The installation needs to be done by a certified gas installer in accordance with the local legislation en rules. The room has to be ventilated sufficiently.
DE : Lesen Sie zuerst sorgfältig das Handbuch, bevor Sie das Gerat aufstellen und in Betrieb nehmen.
Die Installation des Geräts muss durch einen anerkannten Gas-Installateur erfolgen, und zwar nach den nationalen und lokalen Vorschriften. Das Gerat ist nur in ausreichend belüfteten Räumen zu betreiben

BN M-DESIGN

MN LUNA 850V Gold

CE 0461/2010 PN 0461BS0880

Serie N° _____

C	GC	P	Qn(Hi) kW	Pn (Hi) kW	V m³/h
BE/FR	I2E+	G20/G25-20/25mbar	9.7	8.4	1.026
DE/LU/PL	I2E	G20 - 20 mbar	9.7	8.4	1.026
NL	I2L	G25 - 25 mbar	9.2	8	1.132
AT/CH/CY/CZ/DK/ EE/ES/FI/GB/GR/ IE/IT/LT/LV/NO/ PT/RO/SE/SI/SK	I2H	G20 - 20 mbar	9..7	8.4	1.026
BE/CH/CY/CZ/ES/ FR/GB/GR/IE/IT/ LT/PT/SI	I3+	G30/G31-(28-30)/37mbar	9.5	7	0.389
CY/DK/EE/HU/IT/ LT/NL/NO/SE/SI/ SK/RO/TR/BG/IS/ LU/MT	I3B/P	G30 - 30 mbar	9.5	7	0.295
AT/CH/DE/LU	I3B/P	G30 - 50 mbar	9.5	7	0.389

Aardgas/Gaz naturel/Natural Gas/Erdgas G20/20 mbar // G25/25 mbar // G20-G25/20-25 mbar ☐

LPG / GPL / FLÜSSIG GAS G30/(28-30) mbar // G30/50 mbar // G30/G31-(28-30)/37 mbar ☐

Rendementsklasse CE / Categorie Rendement CE / Efficiency class CE / Klasse Wirkungsgrad CE

Aardgas/Gaz naturel/Natural Gas/Erdgas : 1 **LPG / GPL / FLÜSSIG GAS : 2**

BN = merk-marque-brand name-marke
MN = model-type
C = land van bestemming-pays de destination-country of destination-Bestimmungsland
GC = gascategorie-catégorie de gaz-gas category-Gasart
SN = serienummer-numéro de serie-serial number-Seriennummer
PN = pinnumer-numéro pin-pin number-PIN-nummer

C11 / C31 / C91

230 VAC - 50 Hz
0,025 kW

NL : Raadpleeg eerst zorgvuldig het instructieboekje voordat u het toestel plaatst en in gebruik neemt.De installatie van dit toestel dient te geschieden door een erkend gasinstallateur,volgens de landelijke en plaatselijk geldende voorschriften, in een voldoende geventileerde ruimte.
FR : Avant d'installer et d'utiliser l'appareil, lisez attentivement le livret d'instructions. L'installation de cet appareil être réalisée par un installateur agrée dans un local suffisament ventilé selon les prescriptions nationales et locales en vigueur.
EN : Before installing and use the appliance please read carfully through the instruction manual. The installation needs to be done by a certified gas installer in accordance with the local legislation en rules. The room has to be ventilated sufficiently.
DE : Lesen Sie zuerst sorgfältig das Handbuch, bevor Sie das Gerat aufstellen und in Betrieb nehmen.
Die Installation des Geräts muss durch einen anerkannten Gas-Installateur erfolgen, und zwar nach den nationalen und lokalen Vorschriften. Das Gerat ist nur in ausreichend belüfteten Räumen zu betreiben

BN M-DESIGN

MN LUNA 850DV Gold

CE 0461/2010 PN 0461CL0981

Serie N° _____

C	GC	P	Qn(Hi) kW	Pn (Hi) kW	V m³/h
BE/FR	I2E+	G20/G25-20/25mbar	9.5	8.2	1.026
DE/LU/PL	I2E	G20 - 20 mbar	9.5	8.2	1.026
NL	I2L	G25 - 25 mbar	9.0	7.8	1.132
AT/CH/CY/CZ/DK/ EE/ES/FI/GB/GR/ IE/IT/LT/LV/NO/ PT/RO/SE/SI/SK	I2H	G20 - 20 mbar	9.5	8.2	1.026
BE/CH/CY/CZ/ES/ FR/GB/GR/IE/IT/ LT/PT/SI	I3+	G30/G31-(28-30)/37mbar	9.3	7	0.389
CY/DK/EE/HU/IT/ LT/NL/NO/SE/SI/ SK/RO/TR/BG/IS/ LU/MT	I3B/P	G30 - 30 mbar	9.3	7	0.295
AT/CH/DE/LU	I3B/P	G30 - 50 mbar	9.3	7	0.389

Aardgas/Gaz naturel/Natural Gas/Erdgas G20/20 mbar // G25/25 mbar // G20-G25/20-25 mbar ☐

LPG / GPL / FLÜSSIG GAS G30/(28-30) mbar // G30/50 mbar // G30/G31-(28-30)/37 mbar ☐

Rendementsklasse CE / Categorie Rendement CE / Efficiency class CE / Klasse Wirkungsgrad CE

Aardgas/Gaz naturel/Natural Gas/Erdgas : 1 **LPG / GPL / FLÜSSIG GAS : 2**

BN = merk-marque-brand name-marke
MN = model-type
C = land van bestemming-pays de destination-country of destination-Bestimmungsland
GC = gascategorie-catégorie de gaz-gas category-Gasart
SN = serienummer-numéro de serie-serial number-Seriennummer
PN = pinnumer-numéro pin-pin number-PIN-nummer

C11 / C31 / C91

230 VAC - 50 Hz
0,025 kW

NL : Raadpleeg eerst zorgvuldig het instructieboekje voordat u het toestel plaatst en in gebruik neemt.De installatie van dit toestel dient te geschieden door een erkend gasinstallateur,volgens de landelijke en plaatselijk geldende voorschriften, in een voldoende geventileerde ruimte.
FR : Avant d'installer et d'utiliser l'appareil, lisez attentivement le livret d'instructions. L'installation de cet appareil être réalisée par un installateur agrée dans un local suffisament ventilé selon les prescriptions nationales et locales en vigueur.
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DE : Lesen Sie zuerst sorgfältig das Handbuch, bevor Sie das Gerat aufstellen und in Betrieb nehmen.
Die Installation des Geräts muss durch einen anerkannten Gas-Installateur erfolgen, und zwar nach den nationalen und lokalen Vorschriften. Das Gerat ist nur in ausreichend belüfteten Räumen zu betreiben

17. CE CERTIFICATION

Technigas

Module B

EC TYPE EXAMINATION CERTIFICATE

Annex II Paragraph I directive 2009/142/EC

Certificate number : *E1046/5507 Rev.1* — *Date of issue : 17/09/2007*
ID number : *0461BS0880* — *Revised : 13/12/2010*

Fabricant : M-DESIGN
Manufacture Torhoutsesteenweg 222 A
Fabrikant B - 8210 ZEDELGEM

Marque commerc. : M-Design
Trade mark
Handelsmerk

Type : LUNA 850V – 550V
Model LUNA 1000H – 1150H – 1300H – 1600H
Type LUNA 1000CL/CR/DC – 1300CL/CR/DC – 1600CL/CR/DC

Genre d'appareil : CONVECTOR HEATER
Kind of product
Soort toestel

Type d'appareil : C11/ C31 / C91
Appliance type
Type toestel

Countries of destination, appliance categories :

AL-AT-BE-BG- CH- CY- CZ- DE- DK- EE- ES- FI- FR-GB-GR- HU-HR
IE- IS - IT- LT- LU- LV- MK- MT- NL-NO- PL-PT- RO- SE- SI- SK- TR

I2H // I2L // I2E // I2E+// I3+ // I3B/P // I3P // II2H3B/P // II2H3+ // II2H3P // II2E+3+ //
II2L3B/P // II2L3P // II2E3B/P // II2E+3B // II2E+3P

G20-20 mbar // G25-25 mbar // G20/G25-20/25 mbar
G30-(28-30) mbar // G30-50 mbar // G30/G31-(28-30)/37 mbar
G31-30 mbar // G31-50 mbar

Normative references : EN 613 edition 12/2000
EN 613/A1 edition 04/2003

Cancels and replaces the previous one from the 17/09/2007.

DIRECTOR
K DE WIT

n° 199-PROD

BELAC

TGP-08-14
2002-04-12

TECHNIGAS - Rodestraat, 125 - B-1630 Linkebeek
Phone +32 2 383 02 00 - Fax +32 2 380 87 04
e-mail : technigas@technigas.be - website : www.technigas.be

Technigas

Module B

EC TYPE EXAMINATION CERTIFICATE

Annex II Paragraph I directive 2009/142/EC

CE 0461

Certificate number : *E1264/5580* *Date of issue : 13/12/2010*
ID number : *0461CL0981*

Fabricant : M-DESIGN
Manufacture Torhoutsesteenweg 222 A
Fabrikant B - 8210 ZEDELGEM

Marque commerc. : M-Design
Trade mark
Handelsmerk

Type : LUNA 550DV – 850 DV -
Model LUNA 1000DH – 1150DH – 1300DH – 1600DH
Type

Genre d'appareil : CONVECTOR HEATER
Kind of product
Soort toestel

Type d'appareil : C11/ C31 / C91
Appliance type
Type toestel

Countries of destination, appliance categories :

AL-AT-BE-BG- CH- CY- CZ- DE- DK- EE- ES- FI- FR-GB-GR- HU-HR
IE- IS - IT- LT- LU- LV- MK- MT- NL-NO- PL-PT- RO- SE- SI- SK- TR

I2H // I2L // I2E // I2E+// I3+ // I3B/P // I3P // II2H3B/P // II2H3+ // II2H3P // II2E+3+ //
II2L3B/P // II2L3P // II2E3B/P // II2E+3B // II2E+3P

G20-20 mbar // G25-25 mbar // G20/G25-20/25 mbar
G30-(28-30) mbar // G30-50 mbar // G30/G31-(28-30)/37 mbar
G31-30 mbar // G31-50 mbar

Normative references : EN 613 edition 12/2000
EN 613/A1 edition 04/2003

DIRECTOR
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n° 199-PROD

BELAC

TGP-08-14
2002-04-12

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